NOVA BEDFORDIA CONDITA A.D. 1787
LUCEM DIFFUNDO
CIVITATIS REGIMINE DONATA A.D. 1847

CITY DOCUMENTS.

MAYOR'S ADDRESS

TO THE CITY COUNCIL,

CITY GOVERNMENT,

ANNUAL REPORTS, ETC.,

For the Year 1891-92.

NEW BEDFORD:
E. ANTHONY & SONS, Incorp., CITY PRINTERS.
1892.

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1892—CITY DOCUMENT No. 1.

ADDRESS

OF

CHARLES S. ASHLEY,

Mayor of New Bedford,

TO THE

CITY COUNCIL,

January 4, 1892.

NEW BEDFORD:
E. ANTHONY & SONS, Incorp., CITY PRINTERS.
1892.

ADDRESS.

Gentlemen of the City Council:

To enable you to understand the duties which devolve upon you, in the discharge of your official obligations, I take the liberty of calling your attention to the condition of the various municipal departments of our city.

FINANCIAL.

From the carefully prepared statements of the City Treasurer and Collector of Taxes, I am enabled to present the following facts in relation to the financial standing of our city at this date. Our financial year now closes on the day on which the new City Government is inaugurated; were it possible to have it close one month earlier, say December 1st, exact figures could be obtained. The small difference which may appear between these figures and those finally made by the City Auditor at the close of the financial year, will be due to the fact that these are to some extent necessarily approximated, owing to the impossibility of getting them absolutely exact at the time this statement is prepared.

I would therefore recommend that the ordinance be so changed that the financial year shall close on the first of December.

TAXES.

Assessments for the year:

State tax,	$26,025.00
County tax,	47,819.40
City appropriations,	550,200.00
Overlay,	26,134.37
	$650,178.77
Collections,	625,804.27
Uncollected balance,	$24,374.50

The credits to the Collector are as follows:

Paid State tax,	$26,025.00
Paid County tax,	47,819.40
Paid City Treasurer,	520,712.18
Discounts and abatements,	31,247.69
Total credits,	$625,804.27

About 3.75 per cent. of the whole assessment of 1891 remains unpaid at this date, $5,131.89 in excess of the previous year,—a good showing, but not quite up to our standard.

The State and County taxes amounted in the aggregate to $73,844.40, nearly one-ninth of the whole assessment, or $1.81 per $1000 on our valuation.

The collection for 1890 and previous years amounted to $11,714.15.

Net amount paid by the national banks of the city for taxes of 1891 was $85,554.63,—$39,951.97 for the city, and the balance, $45,602.66, for the Commonwealth of Massachusetts.

The receipts from the State Treasurer, for corporation and other taxes, were as follows:

Corporation taxes, 1890 and 1891,	$70,826.54
Taxes from national banks out of the city, &c.,	3,210.19
Taxes on ships in foreign trade,	1,436.45
Total,	$75,473.18

It is estimated that the receipts under this head will be about the same in 1892.

RECEIPTS AND EXPENDITURES.

The receipts and expenditures for the past year, including balance of cash in the treasury, January 5th, 1891, were as follows:

Balance, January 5, 1891, as per Auditor's report,		$26,078.73
Receipts from Collector of Taxes:		
Taxes, 1891,	$520,712.18	
Taxes, 1890,	7,628.57	
Taxes, 1889,	4,047.38	
Taxes, 1888,	33.20	
Taxes, 1887,	5.00	
Receipts from other sources,	1,046,682.44	1,579,108.77
Total receipts, including balance,		$1,605,187.50
Expenditures on Mayor's warrants,		1,593,356.75
Balance, January 1, 1892,		$11,830.75

The amount received for water rates is included in the foregoing statement.

Receipts for rates for year ending Dec. 1, 1891,	$66,389.92
Received for rates for year ending Dec. 1, 1890,	62,481.53
Increase for the year,	$3,908.39
Received for liquor licenses,	44,837.00
Due and paid to State, one-quarter,	11,209.25
Net receipts to city, three-quarters,	$33,627.75

As no licenses can be granted in 1892, this loss to the city will necessarily increase our tax rate at least eighty-seven cents per $1000 on our present valuation.

APPROPRIATIONS.

The appropriations for the past year have been as follows:

General appropriations,		$570,200.00
Special appropriations:		
Cemeteries,	$2,500.00	
Board of Health,	601.95	
Cove street wall,	12,000.00	
Fire Department,	6,750.00	
Highway Department,	25,000.00	
Incidentals,	19,220.85	
Kempton Street lot,	8,600.00	
Police signal telegraph,	1,300.00	
Police Department,	4,000.00	
Printing, binding, etc.,	4,000.00	
Repairs of city property,	1,275.00	
Schools—Incidentals,	8,000.00	
Repairs, etc.,	4,900.00	
Teachers,	12,000.00	
Truants,	600.00	
Sewers—General account,	30,273.00	
Construction,	78,965.08	219,985.88
Total appropriations in 1891,		$790,185.88
Special appropriations as above,		$219,985.88
Less balance of unappropriated funds at this date,	$67,577.37	
Corporation taxes due,	4,391.19	71,968.56
Amount to be provided for in 1892,		$148,017.32

MUNICIPAL DEBT.

The debt of the city is as follows:

Water bonds, 7s,	$110,000.00	
" 5s,	100,000.00	
" 6s,	260,000.00	
" 4s,	120,000.00	
Trust funds,	129,500.00	$719,500 00
Sewer bonds, 4s,	183,000.00	
" 3½s,	75,000.00	

Improvement bonds, 6s,	213,000.00	
" " 3½s,	140,000.00	
" " 4s,	175,000.00	786,000.00
Temporary debt,		125,000.00
		$1,630,500.00

DEDUCTIONS.

Balance of cash, Jan. 4, 1892,	$11,830.75	
Due city for Military aid,	9,360.00	
Due from State, corporation taxes and Poor Department,	5,500.00	
Taxes due,	32,000.00	
Sewer taxes due,	18,000.00	
Due Street Department,	1,000.00	
Sinking funds,	155,905.19	234,595.94
Net city debt,		$1,395,904.06

The issue of bonds of April 1, 1891, was as follows:

Sewer bonds, 4s,		$57,000.00
Improvement bonds, 4s,		73,000.00
		$130,000.00
Payment of water bonds, 7s,	$10,000.00	
" " 6s,	20,000.00	
Payments of improvement bonds, 6s,	10,000.00	
Payment of sewer bonds, 4s,	10,000.00	50,000.00
Increase of bonded debt,		$80,000.00
Present net debt,		$1,395,904.06
Net debt, Jan. 5, 1891,		1,371,939.29
Net increase since Jan. 5, 1891,		$23,964.77

Under Chapter 312 of the Acts of the Legislature of 1885, entitled "An Act to Limit Municipal Debt," the limit of indebtedness of this city may be stated as follows:

Average of assessors' valuations for the previous three years,	$36,644,571.00
Limit of debt, 2½ per cent. of above named sum,	$916,114.27
Net debt, exclusive of water,	676,404.06
Short of limit,	$239,710.21

About $18,000 in excess of Jan. 5, 1891.

Under the same law, Section 1, taxes assessed upon property, exclusive of State and County taxes and sums required for city debt, cannot exceed twelve dollars per thousand, on the same average valuation. It is estimated that the city will require at least $525,000; as under the law the City Council will be limited to $440,000 in its appropriations, it can readily be seen that some provision will have to be made for the balance, $85,000, before the close of the year. This does not include sums that may be required for the construction of sewers, new school-houses, etc. I anticipate at this time, however, that the receipts for corporation taxes and other sums due to the city, exclusive of general taxes, will be sufficient to supply the amount of deficiency above named. For any new work that may be ordered during the year, I would recommend that the City Council procure the funds required for it by the sale of bonds, as I do not think it just for the present generation to bear the whole expense of improvements so useful to those who are really to reap the benefits.

THE SCHOOL DEPARTMENT.

In my inaugural last year, I took occasion to speak somewhat at length of this department, and also made some suggestions in relation to its future needs. It will not be necessary for me to dwell this year upon it to any extent. But a year's service as chairman of the School Board, and the fuller knowledge of the schools acquired thereby, convinces me that the recommendations made in my first inaugural regarding this department were judicious and should be carried out.

One of the measures suggested was the erection of a school building on the Kempton Street lot, which would be adequate to the school demands for the central part of the city; another was the extension of the school work along the lines of manual training.

Although the building has not yet been erected, the city has acquired within the year the land adjoining the old Kempton Street lot and now owns the whole square, giving a fine site for the proposed building.

A sub-committee of the School Board, to whom was referred the advisability of extending manual training in the schools, has reported unanimously in favor of such extension as soon as the necessary quarters can be provided therefor. I therefore renew my recommendation of last year for the erection, at an early date, of such a school-house on the Kempton Street lot as will meet the requirements of the school department.

No action has yet been taken towards acquiring land and providing a suitable building to meet the demands in the northerly portion of the city for additional school room,,another measure recommended a year ago.

The crowded condition of the schools in that section, and the extreme distance that many of the pupils are now forced to walk, appeal to your consideration of this matter.

The increase of pupils in all the schools the past year is but one indication of the rapid growth of the city, and the increasing demands that are being made upon every department,

Several hundred more pupils are enrolled in the schools

than there were a year ago. The three-storied building containing twelve rooms, located on Division street, which was completed during the year, is now occupied by its full quota of pupils.

In the construction of new buildings, as well as in the remodelling of old ones, due attention has been given to securing the best known appliances for heating and ventilating. Alterations are constantly being made in the older buildings to so adapt them to modern sanitary ideas that the health and comfort of the pupils and teachers may be promoted thereby.

All of these improvements mean large appropriations, but are necessary and legitimate outlays. The increase of expense in carrying on this department is not therefore indicative of lavish expenditure, but is made necessary by growing needs. I am satisfied that the department is administered with due regard to a wise economy, and the welfare of the thousands of children under its care.

The schools of a city bear a very close relation to its business welfare. A community that neglects its schools can neither expect to attract to it such persons as will give it strength and character, or hope to create within itself a class of citizens whose enterprise and industry will promote to the highest degree its material welfare. The spirit of the age that makes competition close and exciting in the business world, is felt equally in the school world. Progress is the watchword of the day, and I would bespeak the same generous public policy toward our schools in the future that in the past has kept them

abreast of the times, and made them a source of pride to our citizens.

WATER WORKS.

It needs no argument to convince you of our indebtedness to this department more than to any other, for the prosperity and growth of our many industries during the past fifteen years, and thus indirectly the rapid increase of our population may be almost wholly attributed to our ability to furnish a bountiful supply of water. Limit this supply to a comparatively small amount, and your enterprises will quickly dwindle and your city cease to thrive. It therefore behooves us to take such action as may be required from time to time to enable this department to cope with any emergency likely to occur.

I invite your attention to the following financial statement:

DR.

Balance, Dec. 1, 1890,		$44,125.53
Total receipts from water takers,		66,758.67
Receipts for laying mains, services, etc.,		11,881.29
General appropriation for public use,	$12,000.00	
General appropriation from tax levy,	71,000.00	83,000.00
Total,		$205,765.49

CR.

Management and repairs,	$53,824.48
Extension of works,	33,811.68
Interest on bonds,	41,000.00
Bonds paid,	30,000.00
Balance, Dec. 1, 1891,	47,129.33
Total,	$205,765.49

The main distribution pipe has been extended 16,018 feet, and total length of mains now in use is 64.88 miles.

The total consumption for the year has been 1,522,969,000 gallons, being a monthly average of 126,914,000 gallons. This is an increase of about four per cent. over the amount used last year.

This gradual increase in the consumption indicates that the time is drawing nearer when you will be called upon to provide a large appropriation for an extensive enlargement of the capacity of the works. The placing of a new conduit alone will be very expensive, but the rapid growth of our city leaves no alternative, and the work must be done just as soon as it is needed.

Considerable space was devoted in my last inaugural to a discussion of a proposed increase in the rates charged for manufacturing purposes. I have since given this question considerable reflection, and am thoroughly convinced as to the soundness of the views which I then entertained. The amount received for water supplied during the past year amounts to $66,389.92; of this, $57,536.13 was collected from domestic consumers, and $8,853.76 from the manufacturing interests. As compared with last year, the increase in domestic rates has been 8.2 per cent., while that received for manufacturing shows a decrease of 8.8 per cent. While the latter require for their operations very nearly one-half of the daily supply, yet they contribute less than one-seventh of the total revenue. It is true that they meet their share of the deficit in the general tax levy, but as the matter now stands there is presented a very deceptive aspect to those who are not acquainted with our financial condition. As a simple matter

of justice, this error should receive a speedy correction by your action.

I find by referring to the Manual of American Water Works, that it is far easier to make a proper comparison of the schedule rates in force in different cities than the metered rates. There is a wide range both in methods and prices adopted for the latter class of consumers. For instance, several cities adopt a fixed price per thousand gallons, from which there is no deviation whether the amount used be large or small. Again, many places have a sliding scale, charging a high figure for a few thousand gallons, and diminishing the price as the daily requirements of the taker increase. In all these cases the average amount received from metered water will range not far from 25 cents per thousand gallons.

From the authority just quoted, I find that the average maximum charge for metered water, considering the charges adopted by every water department in the State of Massachusetts, is 29.33 cents, while the minimum charge is 17.6 cents. You do not need to be reminded of the very low rate now in force with us. The sum of two and one-half cents per thousand gallons is a figure which compels the tax-payers to contribute each year three-fold the amount received from manufacturing corporations to provide for the deficit incurred in supplying this class of consumers. Do not think I would counsel an exorbitant advance from the present figures. I would not even advocate the average minimum rate which is imposed throughout our Commonwealth. But by all rules of fairness to all our citizens, it seems to me that the city should

receive ten cents per thousand gallons for all water used for manufacturing purposes. This figure would secure from the manufacturers nearer their proper proportion for the amount which they consume, and it would continue to hold out all the inducements to be derived from an unusually low water rate to such new enterprises as may incline to locate in our city.

BOARD OF PUBLIC WORKS.

Probably no department has been more unjustly criticised than this. At the same time there is no department more deserving of praise, and especially is due both credit and appreciation to the members for their untiring energy and impartial method of carrying on the work brought before them by the citizens. In the following I give a brief report, also a few recommendations.

HIGHWAYS AND STREETS.

Three and one-tenth miles of macadam have been laid during the past year, making a total length of macadam of about thirty miles.

With the increased work of repairs made necessary by this length of macadam, an increase must be made in the capacity of the crusher plant at the city yard.

A new steam roller is very much needed, as the boiler and machinery of the old one are worn out. It is a question whether to expend $1500 or $2500 on an old machine or buy a new one for about $4000.

A large number of streets have been graded and made passable during the year, a number having been accepted as highways for a number of years.

Block paving has been laid on several of the main streets and on the New Bedford and Fairhaven bridge. A total of 5532 square yards.

The order to block pave the south side of William street from Pleasant to Sixth, and complete the block paving on the bridge, still remains on file. As the water department contemplates replacing the cement-lined water mains with iron pipe on several of the most important streets, I would suggest that a moderate number of blocks be used on some of the less important streets.

Seventeen thousand one hundred and twenty-two square yards of cobble paving have been laid and relaid. The coming year Durfee street, and parts of Cedar, Rivet, and Potomska, should be cobble paved along the tracks of the street railway.

Eighteen thousand six hundred and eighty feet, or 3 53-100 miles of curbing, has been laid, and the good effect can be best appreciated in certain sections that have been neglected for years, and I would suggest that not less than 40,000 feet be laid in 1892.

Five thousand seven hundred and nine feet of old curbing were relaid.

Twenty-five thousand and sixteen feet of gutters have been laid, and 8774 feet of gutters relaid, a length of 6 4-10 miles.

About 12,900 square yards of concrete walk have been laid and repaired. I would suggest enlarging the concreting force, so as to increase the number of new walks and also repair the old.

The bank wall at Clark's Cove has been completed to a

point west of Crapo street, a length laid the past year of 562 feet. A cap stone similar to the short piece at the foot of Crapo street, should be extended the entire length of the wall. The landing and steps leading from the top of the wall to the beach, at the foot of Crapo street, will make a pleasant walk of the beach.

Early in the year a system of street cleaning was put in operation, and continued except when delayed by lack of sufficient funds to carry on the work. More money should be set aside for this work, so that no delay can occur during the year.

The collection of ashes and rubbish will call for a somewhat larger expenditure in 1892, owing to increased territory.

At the city yard, the need of a shed for carts and gears and a repair shop and tool-house should be met the coming year. The expense for maintenance and repairs is largely increased by the exposure to the weather of carts, gears, etc.

A fence should inclose the yard.

The teaming work will call for an increase soon. The superintendent states that three single carts, with horses, should be added to the force in 1892.

The widening of Pleasant street, from Union to William street, is a matter of great importance, and as the work can never be accomplished at a less cost than at present, I would recommend that active steps be taken toward this end.

MACADAM. URGENT NEEDS.

County road, near Phillips road, 2000 feet; Shawmut avenue, Hathaway road north; Durfee street, Cedar street to Shawmut avenue; Cottage street, Durfee to Mill street and Middle to Morgan street; Parker street, County to Summer street; Shawmut avenue, Parker to Smith street; Sycamore street, Thomas to Ash street; Hawthorn street, extension to town line; Second street, Griffin to Blackmer street; Acushnet avenue, Potomska to Division street; Middle Point road, West French avenue to Butler street.

BLOCK PAVING.

Sixth street, Union to William street; William street, Pleasant to Sixth street.

GRADED STREETS. URGENT NEEDS.

Hill on Tarkiln Hill road; Hathaway road, from Shawmut avenue west; Bowditch street, from Sawyer street to Hathaway avenue; Rockdale avenue, from Cove road to Dartmouth street, and from Allen to Kempton street; Cove road, from County street west as far as the bank wall is completed; Butler street, Clark's Point cut to grade; Bolton road opened to Cove road and graded for travel.

SEWERS.

About 17,550 feet, or 3 32-100 miles, of new sewers have been laid, and 2447 feet, or 46-100 miles, have been relaid to a proper grade.

The Sawyer Street sewer has been the most important built during the year. The unexpected and unusual amount of ledge encountered in its construction has pre-

vented finishing the work within the estimate named. The bottom of the excavation has been rock from Rock street west as far as the trench has been opened. The brick for a large part of the work ahead has been paid for, and is now on the wharf ready for delivery on the line of the sewer. This work must be carried forward to the brook just east of the railroad, so as to take the overflow of the brook in heavy rains.

The construction of a sewer in Hillman street, from Newton street west across the swamp to Hunter street, will build up that section very soon.

The lowering of the sewer in Purchase street, from Hazard to Austin, and east in Wamsutta street to the railroad track, was a great improvement.

The lowering of the Campbell Street sewer, from Cedar to Park, removed another shallow sewer from the list.

The lowering of a section of the sewer in Union street, from Purchase street east, sufficiently to allow a proper depth for a sewer in Purchase street from Union street north, to drain the new Five Cents Savings Bank building, was a move in the right direction.

In laying the sewer in Shawmut avenue, from Durfee to Grand street, it was found necessary to relay and lower the sewer in Durfee street for about 600 feet.

As the Water Department are to tear up the surface of William and Union streets, from Water to Purchase, it is the proper time for the work of lowering the sewers in these two important thoroughfares.

With the sewers and water mains properly placed, the surface of the streets will be in good shape for block pav-

ing in 1893. This work should be under way early in the spring, and the work closed in before December 1st.

Grape Street sewer should be extended to intersect and take the water of the valley west of Rural street, in 1892.

There have been fifty-five new catch-basins built this year.

NEW BEDFORD AND FAIRHAVEN BRIDGE.

During the past year a curbing, concrete walk, and block paving, have been laid across Fish Island and partially across Pope's Island. This work should be completed to the Fairhaven draw this year. The approach on the New Bedford shore will need extensive repairs before block paving can be used to advantage.

The suggestion of the superintendent that the bridge be widened does not seem to call for early attention, but should be borne in mind as a necessity at no distant day.

ENGINEERING DEPARTMENT.

The establishment of an engineering department of public work has resulted in great good to the city. All work is laid out with relation to the future.

Streets, street grades, plans, profiles, records of branches, man-holes, catch-basins, and all notes in reference to the work of streets and sewers are made up in a serviceable shape for present and future use, and for reference at any time.

The work continues of gathering together the fragments and scraps of information of work done in the years previous to 1889, and in making copies of all plans, street grades, etc., that are found.

The necessity of a location for this department, where the valuable information thus collected can be placed in a fire-proof vault for safety, can be readily seen. Each year will increase the value of the work accumulated by this department of public work.

FIRE DEPARTMENT.

This department is in the most excellent condition, and running smoothly throughout. The new Hayes truck at the South End is a great addition to the department, as also will be the permanent reel drivers ordered by the City Government.

There have been more fires the past year than ever before, there having been 56 bell alarms and a large number of still alarms. The losses for the year were $41,032.65, which is a very creditable showing in consideration of the number of alarms.

The houses are all in good condition, excepting No. 5, Zachariah Hillman, which needs repairs and a heating apparatus.

The chief engineer recommends building a shed and fence at Weld Street hook and ladder house, and an extension to the repair shop.

POOR DEPARTMENT.

There has been an increase in the expenses of this year over those of 1890, but no more than was expected from the increased demands made upon the department. Total gross expenses for 1891 are $39,520.80. Net expenses will be a few hundred dollars less than the amount appro-

priated. I believe that proper consideration is given to the calls of the outside poor, and that the whole department is managed in a humane, economical, and satisfactory manner, and will meet with your approval.

POLICE DEPARTMENT.

I regret to find myself reluctantly compelled to announce that the continued disability of Col. Daniel A. Butler to give his official attention to the duties of Chief of Police, makes it incumbent upon me to accept his resignation, which for many weeks has been upon file in my office. I had hoped that rest from official cares and duties might restore him to health, but the requirements of the department impel the selection and appointment of a man capable and efficient to direct and control a department which has in its keeping the lives and property of our citizens and the peace and welfare of the community.

I would recommend that the south police station be removed to Gifford street or South Water street, or to some adjacent locality.

I would also recommend that suitable heating apparatus be placed in the Weld Street station and police stable, where at present there is but one stove.

Inspectors of police having to perform duty at all times, day and night, I would suggest that their pay be increased to that of lieutenants of police.

LIQUOR TRAFFIC.

Notwithstanding the fact that more prosecutions of liquor sellers were instituted by the Police Department during the past year than for many years previous thereto,

public sentiment has found emphatic expression in condemnation of the license system, as evidenced by the vote whereby our citizens have declared that the sale of intoxicating liquors shall not be licensed in this city for the next ensuing license year. However difficult it may have been during the past year to enforce the license laws, hampered as the administration has been by the continued illness of the courteous, honest and efficient gentleman who in health boldly and fearlessly discharged the duties of his responsible position, it is my purpose and intention to so enforce the law which prohibits the sale of intoxicating liquors, during the ensuing year, that the demands of our citizens in that particular shall be fully and completely satisfied. It is one consideration and duty to so regulate the overstepping by licensed dealers of the strict letter of the law, and an entirely different consideration and duty to apprehend and punish those who engage in an unlawful business in defiance of all law.

STREET LIGHTS.

There are very few people who are aware of the arduous duties devolving upon this committee. There was appropriated for the year $27,500 by the finance committee. The sum called for was $34,000, while the actual expense of the year was $30,186. This shows very plainly that this department will need a larger appropriation as the demand on the committee increases from year to year.

CEMETERIES.

I think you will agree with me that our cemeteries are now in as good if not better condition than ever before, but yet there is room for improvement. During the last

year there has been a new record of all lots made, which is a matter of great importance for past as well as future information. I would recommend that the sextons be placed upon a salary; also that you consider the advisability of having each section cleared and placed in good order before being sold.

BOARD OF HEALTH.

The disposal of garbage is one of the most urgent problems of municipal government.

This city simply ignores the existence of such material, the result being that such offal as is valuable for feeding hogs (if city offal can be called valuable or even fit for this purpose) is collected by private individuals, and its collection and transportation constitute a nuisance.

The remainder of our garbage, mixed with ashes, is used for land-making, and is collected by the city. It need only be said that such land is considered unfit to build dwellings upon by all sanitary authorities. The Board of Health is at present considering the question of garbage disposal, and though not prepared at this time to make a recommendation, consider cremation the method which most satisfactorily fulfils the sanitary requirements of the question. The expense of building an adequate crematory, of the land to build it on, of operating and of collecting the garbage separate from ashes, must be determined with the greatest care before any change can be recommended in the present method.

HOSPITAL BEDS.

There have been several cases during the past year, wherein persons entitled to relief from the city were com-

pelled to go to the Alms-house for care and medical attendance in sickness which resulted in death. As the city cannot maintain a hospital of its own, under existing circumstances, I would recommend that a suitable number of beds be maintained at the expense of the city in each of the hospitals, for the exclusive use of patients entitled to apply to the city for medical and surgical treatment.

CONCLUSION.

And now, gentlemen, in conclusion, I desire to impress upon you the importance of your official duties, which the law deems so great as to require of you a solemn promise, under oath, that you will faithfully and impartially perform such obligation.

Let us ever remember that we are the representatives of the city, the servants of the people, and not servants of any political party or association.

Let us also bear in mind that our first duty is to give full and prompt attention not only to every meeting of the general branch of the City Government to which we were elected as the servants of the people, but to every meeting of the various committees to which we may be assigned.

Let us at all times practice forbearance and good will each toward the other, however we may differ in our individual opinions, that, when our duties are ended, we may resign our trusts with the consciousness that we have done our whole duty, have brought no reproach upon our beloved city, have served her best interests, and shown ourselves good and faithful servants, entitled to the confidence reposed in us, and the good will and respect of each other.

1892—CITY DOCUMENT No. 2.

CITY GOVERNMENT.

1892.

MAYOR.

HON. CHARLES S. ASHLEY.

ALDERMEN.

Ward 1—ALLEN RUSSELL, Jr.
Ward 2—HENRY C. HATHAWAY.
Ward 3—CHARLES H. BROWNELL.
Ward 4—STEPHEN A. BROWNELL.
Ward 5—WILLIAM H. SHERMAN.
Ward 6—WILLIAM H. RANKIN.

CITY CLERK.

DANIEL B. LEONARD.

CITY TREASURER AND COLLECTOR OF TAXES.

JAMES H. HATHAWAY.

CITY AUDITOR.

WILLIAM B. TOPHAM.

CITY MESSENGER.

AUGUSTUS D. PIPER.

COMMON COUNCIL.

PRESIDENT—WILLIAM G. KIRSCHBAUM.

Ward One.

FRANK B. CARR,
JAMES SLATER,
MARTIN H. SULLIVAN,
AROD B. HOLLOWAY.

Ward Two.

HENRY L. KING,
GEORGE R. DEHN,
Z. W. PETERSON,
STEPHEN B. WILBER.

Ward Three.

LEMUEL W. HAYES,
CHARLES H. MANCHESTER.
CHARLES T. LUCE,
HENRY M. MAINE.

Ward Four.

WILLIAM G. KIRSCHBAUM,
ISAAC S. BUSHNELL,
GEORGE D. RICHARDS,
JOSEPH S. LEWIS.

Ward Five.

WILLIAM P. BOOTH,
DAVID A. COREY,
ROBERT MITCHELL,
ISAAC L. ASHLEY.

Ward Six.

MARTIN P. FICHTENMAYER,
JAMES ROCK,
JASON L. BALLOU,
JAMES J. DONAGHY.

CLERK—WILLIAM A. MACKIE.

STANDING COMMITTEES OF THE BOARD OF MAYOR AND ALDERMEN.

Police—The Mayor and Aldermen Hathaway and Rankin.
Licenses—Aldermen Hathaway, Sherman, and S. A. Brownell.
Burial Grounds—Aldermen Hathaway, C. H. Brownell, and Russell.
Enrollment—Aldermen Rankin, Russell, and S. A. Brownell.
Soldiers' Aid—The Mayor and Aldermen C. H. Brownell and Russell.

JOINT STANDING COMMITTEES OF THE CITY COUNCIL.

Finance—The Mayor and Alderman S. A. Brownell, President of the Common Council, and Councilmen Slater, Peterson, Luce, Mitchell, Ballou.

Audit—Aldermen Sherman and S. A. Brownell, Councilmen Corey, Donaghy, Sullivan.

City Property—Aldermen S. A. Brownell and Sherman, Councilmen King, Carr, Richards.

Fuel—The Mayor and Alderman Hathaway, Councilmen Lewis, Maine, Mitchell.

Education—Aldermen Sherman and C. H. Brownell, Councilmen Hayes, Corey, Maine.

Fire Department—Aldermen Sherman and Rankin, Councilmen Ashley, Wilber, Fichtenmayer.

Roads, Bridges, and Sewers—Aldermen Russell and Sherman, Councilmen Fichtenmayer, Donaghy, Holloway.

Charities, Almshouse, and Poor—Aldermen C. H. Brownell and Russell, Councilmen Ashley, Rock, Lewis.

Street Lights—Aldermen Hathaway and S. A. Brownell, Councilmen Carr, Bushnell, Hayes.

Printing—Alderman Rankin, Councilmen King and Booth.

Buildings in the Fire District—Aldermen C. H. Brownell and Russell, Councilmen Booth, Holloway, Peterson.

Armories and Military Property—Aldermen Rankin and C. H. Brownell, Councilmen Bushnell, Ballou, Dehn.

Water Works and Water Supply—Aldermen Rankin and S. A. Brownell, Councilmen Wilber, Luce, Slater.

Claims—Aldermen S. A. Brownell and Rankin, Councilmen Richards, Manchester, Rock.

Ordinances—Aldermen Hathaway and Russell, Councilmen Richards, Ashley, Sullivan.

STANDING COMMITTEES OF THE COMMON COUNCIL.

Elections and Returns—Wilber, Ballou, Dehn.

Bills in Second Reading—Hayes, Fichtenmayer, Manchester.

Enrolled Ordinances—Bushnell, Peterson, Lewis.

ASSESSORS.

Office, Library Building, Room 6.

CHARLES D. TUELL, Chairman, 1 year.

JOHN A. RUGGLES, 2 years. WILLIAM A. RUSSELL, 3 years.

ASSISTANT ASSESSORS.

Ward 1—JOSEPH H. SULLIVAN.
Ward 2—ARTHUR B. CHAPPELL.
Ward 3—HENRY C. RUSSELL.
Ward 4—MARSHALL T. MILLS.
Ward 5—WM. J. ABRAMS, Jr.
Ward 6—FRANK PAUL.

BOARD OF HEALTH.

Office, City Hall Building.

WILLIAM N. SWIFT,	Term expires February, 1893.
THOMAS W. COOK,	Term expires February, 1894.
NATHANIEL HATHAWAY,	Term expires February, 1893.

NATHANIEL HATHAWAY, Chairman.
WILLIAM N. SWIFT, City Physician and Quarantine Physician.
The City Physician is *ex officio* a member of the Board.

HEALTH INSPECTOR.
WILLIAM E. MACOMBER.

INSPECTOR OF PLUMBING.
LOUIS H. RICHARDSON.

NEW BEDFORD WATER WORKS.

NEW BEDFORD WATER BOARD.

His Honor CHARLES S. ASHLEY, Mayor, *ex officio* President.
WILLIAM G. KIRSCHBAUM, President of the Common Council, *ex officio*.

DAVID B. KEMPTON,	Term expires June, 1895.
WILLIAM N. CHURCH,	Term expires June, 1893.
HENRY HOWARD,	Term expires June, 1894.

CLERK.
ROBERT C. P. COGGESHALL.

WATER REGISTRAR.
JAMES H. HATHAWAY.
Office, Room 2, Library Building.

SUPERINTENDENT.
ROBERT C. P. COGGESHALL.
City Hall Building.

INSPECTOR.
CLIFFORD BAYLIES.
Office, Room 2, Library Building.

COMMISSIONERS OF SINKING FUND.

ANDREW R. PALMER,	Term expires March, 1895.
MORGAN ROTCH,	Term expires March, 1893.
J. AUGUSTUS BROWNELL,	Term expires March, 1894.

MORGAN ROTCH, Chairman.
JAMES H. HATHAWAY, Secretary and Treasurer.

OVERSEERS OF THE POOR.

ORRICK SMALLEY,	Term expires May 1, 1895.
THOMAS H. KNOWLES,	Term expires May 1, 1893.
JAMES E. STANTON,	Term expires May 1, 1894.

Secretary—ORRICK SMALLEY.
Assistant—ELLA F. BUCKLIN.
Supt. of Almshouse—PELEG S. MACY.
Supt. of Poor Farm—ALBERT A. CHACE.
Physician—JOHN T. BULLARD.

FREE PUBLIC LIBRARY.

TRUSTEES.

Ex officio. Term expires January, 1893.

CHARLES S. ASHLEY, Mayor of the City.
WILLIAM G. KIRSCHBAUM, President of the Common Council.
WILLIAM H. SHERMAN, Alderman, and Chairman of the Committee of the City Council on Education.

Elected by the City Council.

ARTHUR G. GRINNELL,	Term expires April, 1895.
LEONARD B. ELLIS,	Term expires April, 1895.
GEORGE H. DUNBAR,	Term expires April, 1893.
WALTER S. ALLEN,	Term expires April, 1893.
ISAAC B. TOMPKINS, JR.,	Term expires April, 1894.
MATTHEW C. JULIEN,	Term expires April, 1894.

PRESIDENT OF THE BOARD.
THE MAYOR.

CLERK.
WILLIAM L. R. GIFFORD.

COMMITTEES.

On the Library—The Mayor, and Messrs. Allen, Kirschbaum, and Julien.
On the Building—Messrs. Tompkins, Sherman, and Ellis.
On Binding and Blanks—Messrs. Dunbar and Grinnell.

SUPERINTENDENT OF THE LIBRARY.
GEORGE H. DUNBAR.

LIBRARIAN.
ROBERT C. INGRAHAM.

ASSISTANT LIBRARIAN.
WILLIAM L. R. GIFFORD.

ASSISTANTS.

JOSEPHINE A. MERRICK, MARY E. BROWN,
SUSIE H. GAMMONS.

JANITOR.

YORICK W. AMES.

BOARD OF PUBLIC WORKS.

Office, Odd Fellows Building.

His Honor CHARLES S. ASHLEY, Mayor, *ex officio* Chairman.
WM. G. KIRSCHBAUM, President of the Common Council, *ex officio*.
MORGAN ROTCH, Term expires May 1, 1895.
THOMAS B. TRIPP, Term expires May 1, 1893.
GEORGE F. BARTLETT, Term expires May 1, 1894.
DANIEL B. LEONARD, Clerk.
ALBERT B. DRAKE, Superintendent.

SUPERINTENDENT OF BRIDGE, AND DRAW TENDER.

JOHN B. NICHOLSON.

CITY SOLICITOR.

THOMAS F. DESMOND.

SUPERINTENDENT OF BURIAL GROUNDS.

STEPHEN D. PEIRCE.

Office at Ashley & Peirce's, 72 and 74 William street.

SEXTONS.

Oak Grove Cemetery—CHARLES F. CORNELL.
Rural Cemetery—REUBEN S. ELDRIDGE.

SEALER OF WEIGHTS AND MEASURES.

WALTER A. JENNEY.

INSPECTOR OF BUILDINGS.

FREDERICK MACY.

SUPERINTENDENT OF CITY CLOCK.

CHARLES E. WOODWORTH.

CITY BELL RINGER.

ISAAC BARNES.

CITY LAND SURVEYOR.
ALBERT B. DRAKE.

HARBOR MASTER.
HENRY L. PITMAN.

INSPECTOR OF PETROLEUM AND VINEGAR.
HARRISON DELANO.
Office, No. 17 Middle street.

INSPECTOR OF MILK, PROVISIONS, AND ANIMALS INTENDED FOR SLAUGHTER.
DANIEL C. ASHLEY.
Office, No. 46 North Second street.

SUPERVISOR OF WIRES.
DANIEL D. BRIGGS.

REGISTRARS OF VOTERS.

EMANUEL SULLAVOU,	Term expires May, 1895.
HERBERT A. BLACKMER,	Term expires May, 1893.
CHARLES J. McGURK,	Term expires May, 1894.

DANIEL B. LEONARD, City Clerk, *ex officio.*
Office, Basement, City Hall Building.

PRECINCT OFFICERS.

Term of office expires Nov. 1, 1892.

WARD 1, PRECINCT 1.

Warden, WILLIAM J. ARRIGAN, D.
Clerk, EDWARD F. DAHILL, R.
Inspector, WILLIAM J. HOYLE, D.
" JOHN F. KIRK, R.
" JOSEPH H. SULLIVAN, D.
" EDGAR H. GAMMONS, R.

Deputies.

Warden, MAURICE C. DAHILL, D.
Clerk, CHARLES A. V. TERRY, R.
Inspector, EDWARD M. MURPHY, D.
" JAMES H. BAMFORD, R.
"
" ALBERT W. MOORE, R.

WARD 1, PRECINCT 2.

Warden, GEORGE P. MACOMBER, R.
Clerk, JOHN N. O'BRIEN, D.
Inspector, GEORGE B. BORDEN, R.
" DANIEL J. SULLIVAN, D.
" GEORGE E. SAXON, R.
" DANIEL F. DRISCOLL, D.

Deputies.

Warden, JOHN SMITH, (769 Purchase St.), R.
Clerk, THOMAS F. O'NEIL, D.
Inspector, JAMES H. SAXON, R.
" JOSEPH T. SMITH, D.
" EDWIN S. WHITTAKER, R.
"

WARD 2, PRECINCT 3.

Warden, DAVID B. PEIRCE, D.
Clerk, MYRON W. BROWNELL, R.
Inspector, GEORGE T. HADLEY, D.
" STEPHEN HAFFORD, Jr., R.
" WILLIAM W. ATWOOD, D.
" THOMAS C. ROBBINS, R.

Deputies.

Warden, CHARLES A. CASE, D.
Clerk, CHARLES T. BURGESS, R.
Inspector, ROBERT GILLESPIE, D.
" CHARLES L. FAUNCE, R.
" JOHN F. GOGGIN, D.
" ARTHUR A. DEXTER, R.

WARD 2, PRECINCT 4.

Warden, GEORGE K. DAMMON, R.
Clerk, J. FRANKLIN KEENE, D.
Inspector, DAVID S. SMALL, R.
" JOSEPH P. H. CLARK, D.
" SAMUEL R. BROWNELL, R.
" ASA L. H. ALLEN, D.

Deputies.

Warden, GEORGE W. HILLMAN, R.
Clerk, HENRY SMITH, D.
Inspector, PHILIP R. KING, R.
" JAMES F. CARROLL, D.
" EDGAR R. LEWIS, R.
" CHARLES L. CHURCH, D.

WARD 3, PRECINCT 5.

Warden, JOSHUA B. ASHLEY, Jr., D.
Clerk, JAMES D. ALLEN, R.
Inspector, HENRY F. HAMMOND, D.
" WILLIAM T. CASWELL, R.
" JOHN NOTTER, D.
" RUFUS H. WILLIS, R.

Deputies.

Warden, EDWARD F. McKOWEN, D.
Clerk, EDWARD H. CARTER, R.
Inspector, CHARLES T. LUCE, D.
" PRINCE S. BORDEN, R.
"
" LYCURGUS H. HOWLAND, R.

WARD 3, PRECINCT 6.

Warden, ALBERT H. W. CARPENTER, D.
Clerk, B. FRANKLIN WORDELL, R.
Inspector, CHARLES W. HOWLAND, D.
" BENJAMIN F. JENNEY, R.
" K. CLIFTON TERRY, D.
" EDWARD T. SHERMAN, R.

Deputies.

Warden, EDWARD S. RUSSELL, D.
Clerk, CHARLES L. PAINE, R.
Inspector, ARTHUR C. WHEATON, D.
" THOMAS H. FORBES, R.
" JAMES AIKEN, D.
" WILLIAM E. CARROLL, R.

WARD 4, PRECINCT 7.

Warden, WILLIAM B. TOPHAM, R.
Clerk, WALTER R. MYRICK, D.
Inspector, AUGUSTUS D. PIPER, R.
" GEORGE P. GIFFORD, D.
" MARSHALL T. MILLS, R.
" GEORGE S. HOYT, D.

Deputies.

Warden, JAMES B. RUSSELL, R.
Clerk, WILLIAM L. R. GIFFORD, D.
Inspector, FRED D. BARROWS, R.
" GEORGE R. YOUNG, D.
" HORACE TILDEN, R.
" GEORGE M. WOOD, D.

WARD 5, PRECINCT 8.

Warden, WILLIAM H. SHERMAN, D.
Clerk, JOHN K. McAFEE, R.
Inspector, GEORGE P. RICHARDSON, D.
" ARTHUR C. SPOONER, R.
" ISAAC C. SHERMAN, D.
" ROBERT R. TOPHAM, R.

Deputies.

Warden, PHILIP S. BRIGGS, D.
Clerk, ALBION T. BROWNELL, R.
Inspector, THOMAS J. PEED, D.
" ORRICK SMALLEY, Jr., R.
" JOHN McCULLOUGH, Jr., D.
" GEORGE F. COLE, R.

WARD 5, PRECINCT 9.

Warden, HENRY S. SWAIN, R.
Clerk, HENRY A. GRAY, D.
Inspector, DAVID M. PIPER, R.
" WILLIAM C. KENNEDY, D.
" FREDERICK B. COOK, R.
" CHARLES S. BAYLIES, D.

Deputies.

Warden, FRANCIS A. BOOTH, R.
Clerk, AUGUSTUS M. KENNEDY, D.
Inspector, JOHN C. EMORY, R.
" ARTHUR E. DUFFEY, D.
" JAMES H. MAGNETT, R.
" JAMES LOWE, Jr., D.

WARD 6, PRECINCT 10.

Warden, CHARLES F. BRIGGS, R.
Clerk, LEANDER A. WILLISTON, D.
Inspector, GEORGE F. CURRY, R.
" FRANK CROACHER, D.
" WILLIAM F. CASWELL, R.
" FRANK P. P. TUELL, D.

Deputies.

Warden, PAUL W. WING, R.
Clerk, JOHN W. DONAGHY, D.
Inspector, GEORGE F. SAWIN, R.
" FRANK W. FRANCIS, D.
" ROLAND R. ASHLEY, R.
" FRANK G. TABER, D.

WARD 6, PRECINCT 11.

Warden, HERBERT B. GARDNER, R.
Clerk, N. HERBERT GREENE, D.
Inspector, WILLIAM W. BONNEY, R.
" WILLIAM N. NELSON, D.
" AMOS W. HADLEY, R.
" GIDEON D. POPPLE, D.

Deputies.

Warden, MARSHALL S. GREENE, R.
Clerk, GEORGE E. BRIGGS, D.
Inspector, HARRY C. VAUGHAN, R.
" CHARLES A. SERPA, D.
" ANDERSON H. SWIFT, R.
" GEORGE L. JENNINGS, D.

VOTING PRECINCTS.

WARD ONE.

Precinct 1. All that portion of said ward lying northerly of a line drawn through the centre of Cedar Grove, Purchase, Linden, Ashland, and Durfee streets, thence continuing in a straight line to the boundary line between the town of Dartmouth and the city of New Bedford.

Voting place, Ward room, corner of Weld and Bowditch streets.

Precinct 2. All that portion of said ward lying southerly of the aforesaid division line.

Voting place, Howland Chapel, 588 Purchase street.

WARD TWO.

Precinct 3. All that portion of said ward lying east of a line drawn through the centre of Thomas, Sycamore, and County streets, to a point at the intersection of a line formed by the extension of a line through the centre of Franklin street.

Voting place, Ward room on Willis street.

Precinct 4. All that portion of said ward lying west of the aforesaid division line.

Voting place, carpenter shop of Loum H. Faunce, rear of 63 Parker street.

WARD THREE.

Precinct 5. All that portion of said ward lying east of a line drawn through the centre of Summer street, from the centre of Middle to the centre of Maxfield street.

Voting place, Ward room, Kempton street, near County.

Precinct 6. All that portion of said ward lying west of aforesaid division line.

Voting place, northwest corner Hillman and Ash streets.

WARD FOUR.

Precinct 7. The entire ward, including the islands known and called Pope's and Fish island.

Voting place, City Hall.

WARD FIVE.

Precinct 8. All that portion of said ward lying easterly of a line drawn through the centre of Fifth street, from the centre of Wing street to the centre of Bedford street, thence through Bedford and South Sixth streets to the centre of Spring street.

Voting place, Ward room on Fourth street, near School.

Precinct 9. All that portion of said ward lying westerly of the aforesaid division line.

Voting place, No. 4 engine house, Bedford street.

WARD SIXTH.

Precinct 10. All that portion of said ward lying easterly of a line drawn through the centre of Fifth street, from its intersection with the centre of Wing street, thence through Grinnell, Fourth, and Rivet streets, Acushnet avenue, Division, and Water streets, to and along the centre of French avenue south to tide water.

Voting place, store, 534 South First street.

Precinct 11. All that portion of said ward lying westerly of the aforesaid division line.

Voting place, Ward room on Sherman street.

FIRE DEPARTMENT.

CHIEF ENGINEER.

FREDERICK MACY, Term expires January, 1893.

Office, City Hall Building.

ASSISTANT ENGINEERS.

First—LORING T. PARLOW,	Term expires January, 1895.
Second—PLINY B. SHERMAN,	Term expires January, 1894.
Third—AUGUSTUS A. WOOD,	Term expires January, 1893.
Fourth—GEORGE M. CRAPO,	Term expires January, 1896.

CLERK OF BOARD OF ENGINEERS.

LUTHER G. HEWINS, Jr.

MEMBERS OF THE NEW BEDFORD PROTECTING SOCIETY.

(*Special Police Officers to serve at fires.*)

Akin, Francis T.,
Allen, George H. H.,
Allen, Gideon,
Allen, Gilbert,
Bamford, James H.,
Bamford, William,
Boardman, Thomas,
Bourne, Standish,
Bly, O. Frank,
Briggs, George E.,
Case, Charles A.,
Coggeshall, R. C. P.,
Cornish, Clifton H.,
Denison, Henry C.,
Dews, Edwin,
Dias, Joseph,
Dunham, Ernest A.,
Eldridge, John Jr.,
Field, Walter F.,
Gardner, Edward R.,
Gibbs, John E.,
Gifford, Charles H.,
Gifford, Frank H.,
Grinnell, Edmund,
Hadley, A. W.,
Hammond, Henry F.,
Handy, Jonathan,
Haskell, Charles M.,
Holden, Charles H.,
Howard, Henry,
Howland, John J.,
Hussey, Charles M.,
Kelley, Charles S.,
Kingman, G. D.,
Knowles, Thomas H.,
Lawton, Charles H.,
Lewis, Edgar R.,
Lowe, John H.,
Manchester, P. F.,
Maxfield, Edmund F.,
Nye, Willard, Jr.,
Paine, Charles L.,
Parker, James N.,
Peirce, Stephen D.,
Phillips, George A.,
Pierce, Edward T.,
Pierce, Otis N.,
Pitman, William H.,
Potter, William F.,
Read, William F.,
Robbins, Arthur E.,
Robinson, William A.,
Rotch, Morgan,
Richardson, Louis H.,
Russell, William A.,
Sanford, Gardner T.,
Sawin, Frank E.,
Shaw, S. Edward,
Snow, Robert,
Stanton, Henry H.,
Swift, Leander H.,
Swift, R. W.,
Taber, Charles M.,
Taylor, Henry W.,
Taylor, William T.,
Thornton, Alfred,
Vincent, Mark T.,
Washburn, F. A.,
West, William R.,
Wilbor, Alfred G.,
Wilde, Edmond L.,
Willis, William H.,
Wood, Edmund,
Wood, Horace,
Wood, Thomas F.

POLICE DEPARTMENT.

CHIEF.

EZEKIEL C. GARDINER.

CAPTAINS.

LUTHER M. DAYTON, JAMES L. WILBER.

LIEUTENANTS.

LEMUEL D. ADAMS, THOMAS W. COMSTOCK,
TIMOTHY C. ALLEN, FREDERICK HUSSEY,
SETH E. BRYANT, ELLERY PEIRCE,
THOMAS J. TAFT.

HEALTH INSPECTOR.

WILLIAM E. MACOMBER.

INSPECTORS.

FRANKLIN L. HATHAWAY, JOHN C. PARKER.

PATROLMEN.

WALTER ALMOND,	JEREMIAH McCARTHY,
EDGAR W. ALLEN,	JAMES MITCHELL,
HENRY ARNETT,	WILLIAM H. MITCHELL,
JAMES W. ARNETT,	ROBERT MOYNAN,
MILTON A. BROWNELL,	CORNELIUS J. MURPHY,
THOMAS F. CALLANAN,	GEORGE W. PAIGE,
PATRICK CANNAVAN,	HIRAM E. RAYMOND,
THOMAS DAHONEY,	H. WARREN RHODES,
JAMES DODDS,	JOHN C. ROOKS,
PETER DUMEC,	WILLIAM E. ROSCOE,
WASHINGTON A. ELDRIDGE,	JOHN SAVAGE,
THOMAS FAY,	JOSEPH De L. SISSON,
CHARLES C. GIFFORD,	TIMOTHY SULLIVAN,
GEORGE E. GENDRON,	DANIEL P. SWEENEY,
WILLIAM B. HAGERTY,	CHARLES H. TABER,
DANIEL J. HUMPHREY,	JEREMIAH M. TABER,
JAMES A. IVEY,	JOHN TELFORD,
ARTHUR H. JONES,	GEORGE VOGEL,
PATRICK KENNEDY,	STEPHEN J. WESTON,
ALLEN L. LEE,	JOHN H. WILLIAMS,
JOSEPH MATHER,	THOMAS H. WILSON,
CHARLES L. McBAY,	JOSEPH B. WING,

JAMES A. WIXON.

DAY HOUSE KEEPERS.

HENRY W. BUMPUS, DAVID G. KIRBY,
ELISHA E. RUSSELL.

NIGHT HOUSE KEEPERS.

ISAAC M. JONES, CHARLES H. ROBBINS,
JOHN B. MANCHESTER, HENRY STEVENS.

CLERK OF POLICE DEPARTMENT.

HENRY N. WEST.

POLICE MATRON.

MARGARET S. BULLARD.

POLICE SIGNAL SERVICE.

Wagon Men.

JOHN W. BRADY, JOHN M. JONES.

Drivers Patrol Wagon.

EDWARD F. JENNINGS, JOHN D. SULLIVAN.

CONSTABLES.

THE MEMBERS OF THE POLICE FORCE, AND SAMUEL C. PERRY, THOMAS D. HOWLAND.

KEEPER OF THE LOCKUP.

EZEKIEL C. GARDINER.

PROBATION OFFICER.

ISAAC H. COE.

SPECIAL POLICE OFFICERS.

Allen, Edward,
Allen, Lewis G.,
Allen, William H.,
Andrews, Charles O.,
Austin, John H. C.,
Barber, John R.,
Barker, Robert T.,
Barnes, Isaac,
Bartel, Leopold,
Bennett, Jeremiah H.,
Bentley, Frank T.,
Bliss, Frederick P.,
Bliss, William H.,
Booth, Benjamin T.,
Borden, Prince S.,
Brown, William L. G.,
Buckley, Alfred R.,
Burgess, Stephen,
Burke, Michael I.,
Burke, William,
Butts, Henry R., Jr.,
Butts, Squire W.,
Carr, James E.,
Chase, Albert A.,
Childs, Cyril M.,
Clark, Ulysses L.,
Clark, William,
Clarkson, Nicholas J.,
Clynes, Thomas,
Collins, John,
Conklin, Abraham,
Corish, John,
Corley, Maurice C.,
Cornell, Charles F.,
Cornell, Sidney I.,
Considine, Daniel S.,
Cox, James M.,
Cox, Patrick J.,
Crafts, James,
Cronin, Cornelius,
Dammon, George K.,
Davis, Otis A.,
Delano, Harrison,
Demers, Frank E.,
Deneen, Daniel,
Devine, Patrick,
Devoll, George H.,
Donaghy, Joseph,
Duckworth, Wm. A.,
Duffy, Thomas,
Durfey, Richard T.,
Eldridge, Franklin C.,
Eldredge, Samuel T.,
Engeland, George,
Etchell, Edward,
Ferguson, William,
Finn, Michael,
Fitzgerald, James,
Flavin, Maurice F.,
Foley, Edward,
Francis, Frank W.,
Fuller, Jonathan A.,
Geddis, Henry S.,
Gibbs, Preston H.,
Gibbs, William H. H.,
Gifford, John,
Glennon, Thomas F.,
Grant, Lafayette,
Gray, Albert A.,
Greene, Marshall S.,
Harrington, J., Clark st.
Hathaway, Frederic,
Hillman, George W.,
Hines, Henry S.,
Holden, George,
Holloway, James T.,
Holmes, Ezra,
Holmes, John J.,
Howard, Henry,
Howland, Joseph B.,
Howland, William G.,
Jay, James A.,
Jenney, Ezra T.,
Johnson, Oscar,
Johnson, W. H., Smith street,
Jones, Isaac M.,
Jordan, William,
Joseph, John,
Karcher, Frederick, Sr.
Kelley, Hiram C.,
Kennedy, Thomas,
Kent, James D. T.,
Kimball, Frank C.,
King, Joseph T.,
Lapham, George W.,
Law, Peter G.,
Lawrence, Cyrus T.,
Leary, Dennis, Jr.,
Lincoln, Ellery C.,
Lincoln, John,
Little, Frank,
Little, John E.,
Lumbert, John,
Luther, Joseph P.,

McAuliffe, John J.,
McCullough, Robert,
McDermot, Michael,
McEnnis, Robert B.,
McDonnell, Patrick,
Macomber, George E.,
Macomber, H. M.,
Marr, William J.,
Martin, Henry T.,
Mehan, John,
Miller, George,
Miskell, John,
Morgan, Elias T.,
Morrison, Thomas,
Netcher, George F.,
Nicholson, John B.,
Oliver, John,
Oliver, John F.,
Omey, Joseph C.,
Palmer, Robert,
Parker, Charles W.,
Partington, William,
Peckham, Samuel W.,
Pease, Fred M.,
Peed, Thomas J.,
Peirce, Anthony, Jr.,
Perry, Samuel C.,
Phillips, Henry T.,
Pierce, Thomas H.,
Pinelle, Joseph,
Pinkham, George W.,
Piper, Augustus D.,
Pitman, Henry L.,
Place, William J.,
Pollock, John H.,
Quinn, Joseph,
Read, George P.,
Read, Richard A.,
Remington, John G.,
Reynolds, James R.,
Richie, David,
Robbins, Charles H.,
Rose, Albert J.,
Russell, Henry C.,
Russell, James B.,
Sadler, William G.,
Salmon, John,
Sampson, Warren W.,
Saxon, James H.,
Shea, Michael J.,
Shields, Charles M.,
Small, David S.,
Smith, Henry,
Smith, Henry H.,
Spicer, Robert H.,
Spooner, Joseph W.,
Staples, Elias,
Stevens, Michael,
Stopford, James I.,
Sullivan, John D.,
Taber, Charles H.,
Taber, Christopher C.,
Taber, William H.,
Taft, Daniel F.,
Tallman, Edward S.,
Taylor, Theodore,
Taylor, William A.,
Thomas, Edward, Jr.,
Thompson, Thomas,
Thomson, John H.,
Tinkham, John S.,
Tinkham, Otis,
Topholm, Peter H.,
Townley, Richard,
Tripp, Benjamin E.,
Tripp, Holder R.,
Tripp, Le Roy G.,
Tuell, Charles D.,
Underwood, John A.,
Underwood, Willis C.,
Vogel, Robert F.,
Warfield, James H.,
Watts, William H. C.,
Weeden, Charles H. L.,
Wilbur, Allen R.,
Wiley, James,
Willis, Rufus H.,
Williston, Hiram L.,
Wilson, John,
Wood, Charles N.,
Wood, George A.,
Wood, James A.

MEASURERS OF WOOD AND BARK.

Ashley, Roland R.,
Bennett, William H.,
Browning, Edwin E.,
Chace, Charles S.,
Chace, Ira M.,
Comey, Charles M.,
Cobb, George A.,
Cornell, Solomon C.,
Coxen, Charles H.,
Crussell, John W.,
Dammon, Samuel,
Flood, James R.,
Grinnell, A. B., Jr.,
Hall, George N.,
Hathaway, John G.,
Holmes, Albert W.,
Lawrence, James A.,
Leavitt, Clark,
Pickens, George,
Reed, Benjamin H.,
Rodman, Frank P.,
Stafford, George B.,
Smith, John,
Tripp, Augustus C.,
Wordell, Wilson I.

SURVEYORS OF LUMBER.

Beetle, John H.,
Carpenter, George H.,
Chase, Abraham,
Croacher, Thomas W.,
Hayes, Lemuel W.,
Lawrence, James A.,
Howland, John W.,
Randall, Charles G.,
Randall, George A.,
Raymond, Hiram,
Smith, Charles F.,
Sowle, Nathaniel P.,
Terry, Charles A. V.

MEASURERS OF GRAIN.

Bentley, Edwin R.,
Chace, Ira M.,
Comey, Charles M.,
Horton, Charles M.,
Hall, George N.,
Rodman, Frank P.

WEIGHERS OF COAL.

Bowman, Fred G.,
Brooks, Nathan B.,
Buchanan, James,
Chace, Ira M.,
Comey, Charles M.,
Corson, James A.,
Day, Thomas E.,
Gifford, Charles H.,
Gifford, Nathaniel W.,
Hathaway, Franklin,
Hathaway, John G.,
Hall, George N.,
Hunt, Josiah,
Lindsey, Robert,
Lumbard, Joseph W.,
Negus, A. S.,
Neal, John A.,
Percy, T. A.,
Pierce, Edward E.,
Reed, Edmund A.,
Rodman, Frank P.,
Rose, Antone J.,
Shurtleff, Lewis T.,
Smith, John,
Stevens, Dennis L.,
Tripp, Jabez D.,
Weeks, James H.,
Wilson, Wallace B.,
Wordell, Wilson I.

CITY WEIGHERS.

Almy, Allen,
Ashley, Clara M.,
Ashley, Roland R.,
Barritto, Joseph,
Boyle, John M.,
Brooks, Nathan B.,
Buchanan, James,
Burgess, James,
Burgess, Thomas,
Butts, James D.,
Chace, Ira M.,
Chace, Albert A.,
Channing, Walter J.,
Comey, Charles M.,
Congdon, William A.,
Corson, James A.,
Craft, James,
Crussell, John W.,
Davis, James,
Day, Thomas E.,
Delano, Harrison,
Doane, Edward D.,
Doe, George F.,
Drew, George,
Drew, Phineas F.,
Driscoll, Daniel E.,
Duff, John,
Edwards, Charles F.,
Eldridge, Howard,
Field, Walter F.,
Gegette, John,
Gibbs, J. Edward, Jr.,
Gibbs, William H. H.,
Gifford, Charles H.,
Gifford, James A.,
Gifford, John F.,
Gifford, Nathaniel W.,
Gifford, Richmond A.,
Gifford, Robert B.,
Grant, Lafayette R.,
Haskell, Frank C.,
Hassett, James,
Hathaway, B. F., Jr.,
Hathaway, Franklin,
Hathaway, James L.,
Hathaway, John G.,
Hayden, Edward D.,
Hitch, Frank B.,
Horton, Charles M.,
Howard, Henry,
Howland, Cyrus C.,

Howland, Edward S.,
Hunt, Josiah,
Jenney, Ezra T.,
Jennings, George L.,
Jennings, John,
Jewett, Charles A.,
Johnson, Ferdinand A.,
Kenney, Edward D.,
Kilpatrick, Edward F.,
Kilpatrick, Robert,
Lawton, Robert S.,
Leavitt, Herbert W.,
Lee, John A.,
Lewis, Henry S.,
Lincoln, Harry H.,
Lumbard, Joseph W.,
Macomber, Harry T.,
Macy, Peleg S.,
Marra, William H.,
Mason, Frederick A.,
Mulberry, William H.,
Neal, John A.,
Negus, A. S.,
O'Connor, Cornelius,
Paul, George H.,
Pedro, George E.,
Peirce, H. M.,
Peirce, Edward E.,
Perry, Frank T.,
Perry, John S.,
Potter, Edwin L.,
Reed, Benjamin H.,
Reed, Edmund A.,
Rodman, Frank P.,
Sherman, Edward R.,
Shurtleff, Lewis T.,
Sisson, Frank E.,
Swift, Reuben E.,
Traverse, Charles I.,
Tripp, Augustus C.,
Tripp, Jabez D.,
Vierick, Louis A.,
Weeks, Henry T.,
Wilcox, Frank S.,
Willis, Charles L.
Wilson, Wallace B.,
Wood, Henry L.,
Wood, John,
Wordell, Wilson I.,
Young, Fred M.

WEIGHERS OF BOILERS AND HEAVY MACHINERY.

Howard, Henry,
Sisson, William H. H.,
Smith, John,
Stone, Walter A.,

FENCE VIEWERS.

Cobb, George A.

POUND KEEPERS.

Manchester, John B.,
Scott, Henry,
Stevens, Henry.

FIELD DRIVERS.

The Police, William H. Johnson (Smith street), John B. Manchester, Henry Stevens.

1891—CITY DOCUMENT No. 3.

CITY OF NEW BEDFORD, MASS.

TWENTY-SECOND ANNUAL REPORT

OF THE

NEW BEDFORD WATER BOARD,

TO THE

CITY COUNCIL,

CONTAINING:

I.

The Report of the New Bedford Water Board for the Year 1891.

II.

The Report of the Water Registrar.

III.

The Report of the Superintendent.

DECEMBER 31, 1891.

NEW BEDFORD:
E. ANTHONY & SONS, Incorp., CITY PRINTERS.
1892.

New Bedford Water Board.

1892.

CHARLES S. ASHLEY,
Mayor of the City.

WILLIAM G. KIRSCHBAUM,
President of the Common Council.

DAVID B. KEMPTON.

WILLIAM N. CHURCH.

HENRY HOWARD.

CLERK OF THE BOARD, AND SUPERINTENDENT.

ROBERT C. P. COGGESHALL.

WATER REGISTRAR.

JAMES H. HATHAWAY.

FOREMAN.

FRANK M. ASHLEY.

PUMPING STATION.

ADONIRAM S. NEGUS, *Pumping Engineer.*

INSPECTOR.

CLIFFORD BAYLIES.

REPORT.

CITY OF NEW BEDFORD,
OFFICE OF THE NEW BEDFORD WATER BOARD,
December 31st, 1891.

To the City Council of the City of New Bedford:

GENTLEMEN,—In accordance with the provisions of the Water Ordinance, the Water Board respectfully submit their twenty-second annual Report. Accompanying it may be found the Reports of the Superintendent, City Treasurer, and Water Registrar.

To these reports you are referred for the detailed account of the operations of the works and their financial condition.

We present the following abstract, drawn from the report of James H. Hathaway, City Treasurer:

Balance, Dec. 1, 1890.	$44,125.53
Receipts for the year, all sources,	90,639.96
	$134,765.49

The charges have been as follows:

Expenditures for management and repairs,	$53,824.48
Expenditures for extensions,	33,811.68
	$87,636.16
Which leaves a balance to the credit of the works on the books of the City Treasurer, Dec. 1, 1891,	$47,129.33

The following is a brief statement regarding the financial operations of the past year:

DEBITS.

Balance, December 1, 1890,		$44,125.53
Receipts from water rates,		66,389.92
Receipts from rents, sales, etc.,		368.75
Receipts from laying main and service pipes in private property,		11,881.29
Receipts from public funds:		
General appropriation from management and repair account to water debt,	$25,600.00	
General appropriation for use of water for public purposes,	12,000.00	
General appropriation by tax levy to make up deficit,	45,400.00	83,000.00
		$205,765.49

CREDITS.

Management and repairs,	$53,824.48
Extension of works,	33,811.68
Interest on bonds,	41,000.00
Bonds paid,	30,000.00
Balance, December 1, 1891,	47,129.33
	$205,765.49
The actual outlay for the construction of these works, December 1, 1891, exclusive of debt, interest, and management and repair account, is	$1,472,370.17

The distributing mains have been increased 16,018 feet, and 3657 feet of that previously laid has been removed. The total length of mains at this date is $64.\frac{8824}{10000}$ miles.

The number of service supplies has been increased 348, making the total number now in use 6738.

A contract was executed on May 15th with Edward Kendall & Son, of Cambridgeport, Mass., to construct and erect, ready for service in the boiler-room of the pumping station of the New Bedford Water Works, one boiler of the Belpaire fire-box locomotive type. This boiler is designed to carry 160 pounds of steam. It is to

be 82 inches in diameter, 27 feet $9\frac{3}{4}$ inches in length, and is to have a double fire-box. The material of the outer shell and inside fire-box is to be of the best open hearth steel. The feed water heater is to be of copper pipe. The amount to be paid is $10,800.

A contract was executed with Messrs. Babbitt & Wood, on May 25th, to construct and erect in the boiler-room of the pumping station of the New Bedford Water Works a smoke flue, for the purpose of connecting the boiler plant with the new chimney. The consideration was $1,190.64.

A contract was made with Gardner & Southwick, on February 5th, for screw taps, sidewalk stops, and other brass castings. The consideration varied from 98 cents to $2.12 for each screw tap, 86 cents to $1.75 for each stop, and 26 cents per pound for stop-box fittings.

A cargo of coal containing 723 gross tons of egg Upper Lehigh brand was purchased on June 26th of Whitney & Kemmerer, of New York city. The price paid was $5.15 per gross ton.

Sixty-five petitions for the extension of main pipe have been presented to this Board. Of this number sixty-three have been granted.

A contract was signed on the eighteenth day of the present month with the McNeal Pipe and Foundry Company of Burlington, N. J., for about 450 gross tons of cast-iron pipe and special castings, the same to be delivered in this city on or before April 10th, 1892. The price to be paid, which includes delivery, is $26.50 per gross ton for straight pipe, and $2\frac{1}{2}$ cents per pound for special castings.

It is proposed to include in the work of the coming year the removal of the present mains in Union street, from Front street to Sixth street, and to replace the same with cast-iron mains of a larger size. The work as laid out also includes the replacing of several shorter lines in other

streets, as may be seen by examining the list which appears in the Superintendent's Report. This list calls for the removal of 6205 feet of cement-lined wrought-iron pipe, which will reduce the total length of that kind of pipe in our distributing system to $7.\frac{219}{1000}$ miles.

Before closing this report, we desire to allude to the fact that the time is not far distant when an extensive enlargement of the capacity of the works will be required. The increasing consumption clearly demonstrates this fact. The placing of a new conduit, the enlarging of the distributing mains, the increase of storage and pumping capacities, are matters which will require a heavy expenditure to accomplish, yet the rapid growth of our city leaves no alternative. The continued prosperity of our industries depends largely upon our ability to furnish an abundant supply of water. Hence the additional supply must be forthcoming when its need is apparent.

Respectfully submitted.

CHARLES S. ASHLEY, Pres.
JOS. DAWSON.
DAVID B. KEMPTON.
WM. N. CHURCH.
HENRY HOWARD.

Report of the Water Registrar.

City of New Bedford,
Water Registrar's Office,
December 1, 1891:

To the New Bedford Water Board:

Gentlemen,—I herewith present to you the annual statements of my accounts as Water Registrar, for the year ending at this date.

The accounts are arranged in the following order, viz.:

1. The receipts for the year from all sources.

2. A classified statement of expenditures for the year.

3. A recapitulation of the outlay for the year, showing the net expenditures under each head.

4. A general recapitulation of the outlay from the commencement of the works to this date.

5. The source of income applied to construction account.

6. Water debt, and payments made on account of the same.

CREDITS TO THE NEW BEDFORD WATER WORKS.

Balance, December 1, 1890,			$44,125.53
Receipts for water:			
Rates, domestic,	$57,536.13		
Rates, manufacturing,	8,853.79		
Appropriations,	12,000.00	$78,389.92	
Received on account of services:			
Services,	$10,984.78		
Meters,	74.00		
Fines,	72.00		
Supplies,	3.65		
Cemeteries,	784.91	11,919.34	
Received for mains:			
Pipe sold,	$33.95		
Receipts from other sources:			
Hay sold,	64.50		
Incidentals, Employer's Assurance,	232.25	296.75	90,639.96
			$134,765.49
Expenditures for the year ending Dec. 1, 1891,			87,636.16
Balance, cash in treasury, Dec. 1, 1891,			$47,129.33

EXPENDITURES FOR 1891.

MANAGEMENT AND REPAIRS.

Engineering and superintendence,	$4,233,68	
Water Registrar, Inspector, and clerk hire,	2,739.89	$6,973.57
Pumping expenses:		
Engineer, firemen, and watchman,	$4,712.69	
Fuel for pumping engine,	6,677.88	
Oil, waste, packing, and gas,	362.50	
Other supplies,	137.17	
Repair of engines,	324.31	
Repair of boilers,	66.23	
Incidentals,	176.55	12,457.33
Maintenance, engine-house and lot,		530.69
Maintenance of mains,		1,458.24

Services:

Labor and stock,	$160.54		
New stop-boxes, clean-taps, etc.,	552.79		
Plumbing,	432.48	1,145.81	
Receiving and distributing reservoir and standpipe,		$530.44	
Fountains and meters,		427.70	
Little Quitticas connection,	$1,346.17		
Repairs of property at Little Quitticas,	302.26	1,648.43	
Storing reservoir, dam, and conduit,		267.20	
Workshop, Water street, and pipe-yard,		650.69	
Repairs of streets and board of horses,		532.76	
Incidentals,		1,601.62	
Public debt,		25,000.00	
Sinking funds,		600.00	53,824.48

EXTENSIONS.

Mains:

Main pipe and special castings,	$12,078.02		
Labor, laying mains,	4,910.62		
Lead, carting, and blacksmith work,	1,447.27		
Other supplies,	698.29		
Stop-gates, hydrants, etc.,	2,010.13		
Unloading pipe, and wharfage,	78.95	21,223.28	

Services:

Service pipe, lead, and iron,	$2,183.86		
Taps, stop-boxes, and other supplies,	2,345.41		
Labor, laying services,	1,518.98		
Plumbing,	322.50	$6,370.75	
Mill piping,		1,519.40	
Fountains and meters,		784.59	
Addition to pumping station,		258.76	
Expense on new boiler,		470.00	
New flue and steam-pipe,		3,184.90	33,811.68
Total expenditures for the year,			$87,636.16

NET EXPENDITURES UNDER EACH HEAD.

MANAGEMENT AND REPAIRS.

Outlay, as above stated,			$53,824.48
Deduct from this account:			
Public debt.		$25,000.00	
Sinking funds,		600.00	
Hay sold,		64.50	
Incidentals.		232.25	
Fines,		72.00	25,968.75
			$27,855.73

EXTENSIONS.

Pipe, labor, and expense laying mains,	$21,223.28		
Pipe sold,	33.95	$21,189.33	
Services, hydrants, fountains, etc.:			
Services, as above,	$6,370.75		
Mill piping,	1,519.40		
Fountains and meters,	784.59		
Addition to station,	258.76		
Expense, boilers, etc.,	3,654.90		
	$12,588.40		
Deductions:			
From takers, etc.,	11,847.34	741.06	
Debt account:			
Bonds paid,	$25,000.00		
Sinking funds,	600.00	$25,600.00	47,530.39
Net expenditures for 1891,			$75,386.12

CONDENSED STATEMENT.

DEBITS.

Net expenditures for the year,	$75,386.12	
Balance unexpended,	47,129.33	$122,515.45

CREDITS.

Balance, December 1, 1890,	$44,125.53	
Received for water,	78,389.92	$122,515.45

GENERAL SUMMARY.

The whole outlay upon the works to this date has been as follows:

Conduit,	$212,307.89
Dam,	18,845.24
Distributing reservoir,	73,740.62
Distribution,	751,703.96
Engine-house and lot,	102,694.07
Engines and foundations,	88,169.46
Storing reservoir,	53,496.06
Receiving reservoir,	33,360.27
Pump-well and culvert,	16,561.41
White homestead,	4,000.00
Peckham road,	512.00
Preliminary,	2,605.34
Engineering,	23,511.88
Salaries,	9,225.00
Incidentals,	8,124.05
Management and repairs,	424,958.48
Fountains, hydrants, meters, etc.,	22,544.17
Real estate, workshop and land,	6,498.75
Land, State street,	350.00
New force main,	23,958.30
Inspection,	5,570.39
Temporary connections, Little Quitticas,	4,227.51
Little Quitticas, extension,	6,450.14
Expense, new boilers,	470.00
New flue and steam-pipe,	3,184.90
Addition to pumping station,	258.76
	$1,897,328.65
Payment of interest on debt,	53,788.14
Water bonds paid, 6 per cent.,	45,000.00
Sinking funds,	2,400.00
	$1,998,516.79
Balance, December 1, 1891,	47,129.33
	$2,045,646.12

The receipts from the commencement of the works to this date have been as follows, viz. :

Appropriations by City Council,		$1,038,000.00
Received for water,		1,007,646.12
		$2,045,646.12
Deduct amount above stated.		1,998,516.79
Balance, Dec. 1, 1891,		$47,129.33
Outlay, per general summary,		$1,998,516.79
Deduct from outlay :		
Paid for management and repairing,	$424,958.48	
Interest paid.	53,788.14	
Bonds paid,	45,000.00	
Sinking funds,	2,400.00	526,146.62
Actual cost of works,		$1,472,370.17
Total receipts for water,		$1,007,646.12
Deduct from this :		
Amount paid for maintenance, debt, interest, and sinking funds,		526,146.62
Water receipts applied to construction,		$481,499.50
Receipts for water in 1891,		$78,389.92
Receipts for water in 1890,		74,481.53
Increase for 1891,		$3,908.39
The increase in the amount received for water since Dec. 1, 1888, has been		$16,854.38

The funds for the construction of the works have been derived from the following sources, viz. :

Investment of Sylvia Ann Howland Educational Bequest,	$100,000.00
Silvia Ann Howland Water Bequest,	100,000.00
Received from sale of bonds,	815,000.00
Net receipts applied to construction,	481,499.50
Appropriation for construction in 1885,	23,000.00
Total,	$1,519,499.50
Deduct balance, Dec. 1, 1891,	47,129.33
Net cost, as above,	$1,472,370.17

The water debt at this date is as follows, viz.

Water bonds, 7 per cent.,	$110,000.00
" 6 "	260,000.00
" 5 "	100,000.00
" 4 "	120,000.00
Sylvia Ann Howland bequest, 6 per cent.,	100,000.00
	$690,000.00
Less sinking funds,	2,645.50
Net water debt, Dec. 1, 1891,	$687,354.50

The appropriations by the City Council in 1891, for bonds, interest, etc., were as follows, viz. :

Water bonds, 7s,	$5,000.00
Interest on bonds,	41,000.00
Interest on trust bonds,	6,000.00
Sinking funds,	600.00
Total appropriations,	$52,600.00
Net expenditures by Water Board, less sinking funds,	74,786.12
Actual amount expended in 1891,	$127,386.12

Number of services added during the year,	348
Number of persons using water Dec. 1, 1890,	35,740
Since added, estimated,	2,760
Total,	38,500

This includes those using water in dwellings only.

Under chapter 17, section 12, of the ordinances of the city, $25,000 of the receipts from water from takers was applied to the payment of bonds that fell due on the first of October last, as shown by the foregoing statement.

In 1892, it is estimated that $10,000 of the receipts from the same source may be so applied. Since the construction of the works there has been paid from the receipts for water the sum of $53,788.14 for interest, $45,000 for bonds, and $2400 for sinking funds,—a large amount in the aggregate, when we consider the very low rate charged for its use.

The inspector reports 938 services turned off and on, largely for repairs, a small number only having been turned off for non-payment of rates.

Respectfully submitted.

JAMES H. HATHAWAY,
Water Registrar.

Report of the Superintendent.

New Bedford Water Works,
Superintendent's Office,
December 1, 1891.

To the New Bedford Water Board:

Gentlemen,—The superintendent's twenty-second annual report of the operations of this department for the year ending December 1, 1891, is herewith respectfully presented.

Mr. Thomas R. Rodman kindly contributes the record of rainfall kept at his residence on Spring street. This, together with the records kept at the storing reservoir at Long Plain, and at the Pumping Station, may be found in annexed table A.

F. P. Stearns, Esq., Chief Engineer of the State Board of Health, supplies the following statement, showing the condition of the Acushnet water during each month of the past year.

Water Analysis — State Board of Health.

PARTS IN 100,000.

Number.	Date of Collection.	Date of Examination.	Appearance. Turbidity.	Appearance. Sediment.	Appearance. Color.	Residue on Evaporation. Total.	Residue on Evaporation. Loss on Ignition.	Residue on Evaporation. Fixed.	Ammonia. Free	Ammonia. Albuminoids. Total.	Ammonia. Albuminoids. In Solution.	Ammonia. Albuminoids. In Suspension.	Chlorine.	Nitrogen as Nitrates.	Nitrogen as Nitrites.	Hardness.
6841	1890. Dec. 22.	1890. Dec. 23.	None.	Very slight.	1.70	5.40	2.65	2.75	.0032	.0224	.0174	.0050	.53	.0120	.0002	1.30
6946	1891. Jan. 26	1891. Jan. 27.	Very slight.	None.	1.00	3.70	1.80	1.90	.0010	.0172	.0154	.0018	.28	.0300	.0001	0.95
7053	Feb. 24.	Feb. 25.	Very slight.	Very slight.	1 00	3 60	1.75	1 85	.0002	.0118	.0112	.0006	.24	.0200	.0009	1.11
7147	Mar. 26.	Mar. 27.	Very slight	Slight brown.	1.00	3.60	1.45	2.15	.0000	.0124	.0100	0024	.33	.0100	.0000	0 79
7244	April 27.	April 28.	Slight.	Considerable rusty.	1.30	3 50	1.50	2.00	.0000	0168	.0132	.0036	.42	.0070	.0000	0.79
7357	May 25	May 27.	Very slight.	Considerable reddish brown.	1.20	4 30	2.00	2.30	.0008	.0250	.0226	.0024	.42	.0090	.0000	0.79
7482	June 22.	June 24.	Very slight	Slight.	1.30	4.20	2.25	1.95	0014	.0224	.0196	.0028	.45	.0070	.0001	0.32
7729	July 30.	July 31.	Very slight.	Slight.	0.85	3.50	1 65	1.85	.0000	.0270	.0246	.0024	.43	.0100	.0001	0.79
7849	Aug 24	Aug 25.	Very slight.	Slight.	0 80	3.90	1.65	2.25	.0000	.0242	.0218	.0024	.49	.0030	.0001	0.79
7970	Sept. 22.	Sept. 23.	Slight.	Slight.	0.70	3.55	2 10	1.45	.0000	.0222	.0198	0024	.43	.0070	0000	0 48
8161	Oct. 22.	Oct. 22.	Very slight.	Very slight.	0.55	3.90	1.80	2.10	.0000	.0184	.0166	.0018	.48	.0050	.0000	0.63
8272	Nov. 23.	Nov. 24	Very slight.	Slight.	0.85	4.65	2.00	2.65	.0022	.0210	.0172	.0038	.55	.0100	.0000	0.79

All samples were collected from the conduit at its entrance to the receiving reservoir.

Scale of colors. 0 = Colorless.
1 = Yellowish brown tint.
2 = Deep yellowish brown tint.

The drought of the past season has been unusually severe, and has created much anxiety in more than one city lest its supply should entirely fail. The ponds and storage basins throughout the country yet remain much lower than is usual at this date. A large rainfall is now needed to replenish these supplies and bring them to their normal condition. Fortunately we have experienced no trouble whatever in meeting the full demands of our consumers, but nevertheless a heavy draught has been made upon our storage capacity, and at this date we are now left with less water in our storing reservoir than is desirable. The Lakeville ponds all settled early in the season to a much lower level than usual, consequently it was not possible during the fall months to draw so large an amount of water in a given time from Little Quitticas pond as could be done in previous years.

The storing reservoir remained full until May 20th, when its surface began to settle. The lowest level was reached October 7th, 30 inches below high water mark. At this date the level is 14 inches below high water level.

The connection between Little Quitticas pond and the storing reservoir was opened June 14th, and has since remained flowing with the exception of ten days in the early part of August, when it was closed for the purpose of repairs.

It is hardly necessary for me to add that had it not been for the auxiliary supply furnished the storing reservoir by the flow from Little Quitticas pond, that that reservoir would have entirely failed many weeks ago. It would, then, seem no more than good judgment would dictate to soon construct a permanent connection between said pond and reservoir. This connection should be controlled at a gate-house located well out into the deep water of the pond, thus allowing it to be drawn to a much lower level than is now possible.

Little Quitticas pond is now one of the storing basins of the New Bedford system of Water Works, and in consequence it is highly important that its waters shall be preserved from all impurities. In view of this fact, I would recommend that you avail yourself of the privilege granted the city of New Bedford by legislative action giving rights in said pond, which allows you to condemn and hold for the use of this department a strip of land around the entire margin.

This calls my attention to the fact that our city has no rights in the land bordering upon the storing reservoir above its high water line. Experience proves that our large cities are finally compelled to purchase wide strips of land around their storage basins, that they may properly preserve the waters therein. In some instances, as in Lynn, almost if not the entire water shed of one of their reservoirs is owned by the city. It is covered with a growth of wood, is cleared of underbrush, and kept in an attractive condition. While our storing reservoir is remarkably isolated from inflows of a contaminating nature, yet it may not always remain so. The land around its borders is not supposed to be of great value, and it would surely be an excellent plan for this department to hold the control of a liberal width of land around the borders of both Little Quitticas pond and the storing reservoir.

The territory through which the conduit passes for some distance north of the receiving reservoir is fast becoming thickly settled. Features of an undesirable nature, from a sanitary standpoint, such as barns, drains, cesspools, etc., are being placed and maintained unpleasantly near the right of way in which the conduit is located. The conduit is not always a tight structure, and drainings from the land over its top gain access to its interior in many places, therefore something ought to be done to keep this

right of way free from any inflows of a suspicious nature. In a few years another conduit must be constructed. If our present prosperity continues it cannot be delayed very long. If upon examination it is decided to place it parallel to the present structure when entering the city, then an additional width to the present strip of land will be needed. If this is to be done, then no time ought to be lost in securing the required land, for it is fast being cut up into house-lots and dotted with dwellings. It would be well for you to personally inspect this right of way, for in places it presents anything but an attractive appearance. Action of the proper kind ought to be taken at once to place this department in complete control of all land included in its limits.

Engine No. 1 (McAlpine) has been in operation 2830 hours 50 minutes, making 2,641,675 revolutions, and pumping 774,010,775 gallons of water. This engine remains in excellent condition. No repairs are likely to be needed for a long time to come.

The cost of pumping has been as follows, viz. :

Salaries, 25½ weeks,	at	$90.63	$2,311.03	
268.9741 gross tons Lehigh coal,	"	4.50	1,210.38	
50.0002 " "	"	5.00	250.00	
248.8401 " "	"	5.15	1,281.53	
$1\frac{2}{11}$ cords white pine wood,	"	4.00	4.73	
$38\frac{4}{5}$ gallons cylinder oil,	"	.48	18.63	
$19\frac{4}{5}$ " sperm oil,	"	.85	16.83	
$66\frac{3}{5}$ " lubricating oil,	"	.32	21.31	
79½ lbs. waste,	"	.09	7.15	
3 lbs. $\frac{7}{8}$ flax packing,	"	.65	1.95	
1 set rod packing (Tripp's Metallic,)			22.26	
$\frac{3}{8}$ gallon alcohol,	"	2.50	.94	
$\frac{3}{8}$ " kerosene,	"	.10	.04	
6 brooms,	"	.25	1.50	
52,600 cubic feet gas consumed,	"	1.50	78.90	
Repairs to engine,			7.25	
Repairs to boilers,			54.13	$5,288.56

Cost of raising water into distributing reservoir, per million gallons,	$6.83
Cost of pumping water one foot high, per million gallons,	$5\frac{7}{10}$ cents.

Engine No. 2 (Worthington) has been in operation 548 hours 20 minutes, making 618,129 revolutions, and pumping 91,483,092 gallons of water. No repairs have been needed, and the engine is now in fine condition.

The cost of pumping has been as follows, viz. :

Salaries, 4 weeks,	at $90.63	$362.51	
62.8127 gross tons Lehigh coal,	" 4.50	282.66	
22.4554 " "	" 5.15	115.65	
$\frac{1}{8}$ cord white pine wood,	" 4.00	.50	
7 gallons cylinder oil,	" .48	3.36	
3 " sperm oil,	" .85	2.55	
$3\frac{1}{4}$ " lubricating oil,	" .32	1.04	
14 lbs. waste,	" .09	1.26	
2 brooms,	" .22	.44	
11,200 cubic feet gas consumed,	" 1.50	16.80	
Repairs to boilers,		11.22	$797.99

Cost of raising water into distributing reservoir, per million gallons,	$8.72
Cost of pumping water one foot high, per million gallons,	$6\frac{92}{100}$ cents.

Engine No. 3 (Worthington High Duty) has been in operation 3082 hours 25 minutes, making 3,398,407 revolutions, and pumping 659,290,958 gallons of water. There was a complete failure of the Babbitt metal ferrules at both ends of all the reheater tubes of this engine in May last. The condition in which these packings were found leads to the conclusion that there was something in the steam, probably sulphuric acid in minute quantities, which attacked the zinc in the Babbitt metal, and thus entirely destroyed the composition. Soft lead rings were substituted for Babbitt metal in making repairs. The compensating cylinder end has required considerable attention. This part of the engine is well worn and needs

overhauling. Probably it will be found best to replace the present cylinders and plungers with those of the latest pattern. It will be remembered that this was the first engine ever built having this attachment for attaining high duty, and the patterns used in this case were soon abandoned by the builders for those containing marked improvements. In the device, as now applied, cast-iron cylinders of considerable increase of length and chilled cast-iron plungers replace those of composition. The harder metal, increase of bearing surface, and improved method of packing of the plungers, go a great ways in eliminating the wear which we now experience. All the other parts of the engine are in good condition.

The cost of pumping is herewith stated, viz. :

Salaries, 22½ weeks,	at	$90.63	$2,039.15	
267.6669 gross tons Lehigh coal,	"	4.50	1,204.50	
142.3183 " "	"	5.15	732.94	
¾ cord of white pine wood,	"	4.00	3.00	
69½ gallons cylinder oil,	"	.48	33.18	
18¾ " sperm oil,	"	.85	15.94	
71⅝ " lubricating oil,	"	.32	22.84	
74 lbs. waste,	"	.09	6.66	
225 lbs. Jones' Compound, for boilers,	"	.10	22.50	
21 lbs. flax packing,	"	.65	13.65	
2 lbs. Garlock's packing,	"	1.20	2.40	
100 lbs. lead,	"	.06	6.00	
10 water-glasses,	"	.25	2.50	
4 brooms,	"	.25	1.00	
1 Peerless Grease Extractor,			36.50	
88,400 cubic feet of gas consumed,	"	1.50	132.60	
Repairs to boilers,			46.20	
Repairs to engine,			249.48	$4,571.04

Cost of raising water into distributing reservoir, per million gallons,	$6.93
Cost of pumping water one foot high, per million gallons,	$5\frac{43}{100}$ cents.

The total cost of pumping for the past year may be summarized as follows, viz. :

1st. Figured on pumping station expenses, viz.,		$10,657.59
Cost of fuel used,	$5,085.89	
Salaries, engineers, firemen, watchman,	4,712.69	
Cost of oil, waste, packing, and other supplies,	490.73	
Repairs and alterations on machinery and boilers,	368.28	
Total pumping expenses,		$10,657.59
Raising water into reservoir, per million gallons,		$6.99
Raising water, per million gallons, one foot high,		$5\frac{33}{100}$ cents.
2d. Figured on total maintenance, viz.,		$94,824.48
Raising water into reservoir, per million gallons,		$62.19
Raising water, per million gallons, one foot high,		$47\frac{43}{100}$ cents.

Boilers Nos. 1 and 2 have been condemned, and are now being removed from the building. These boilers have had a long life, having been in use for twenty-two years.

The remaining boilers are in good condition, and the need of any repairs at the present time are not apparent.

The boiler plant has been connected with the new chimney. The new smoke flue necessary for this purpose was constructed under contract with Messrs. Babbitt & Wood, and the alterations of the old flues to connect with the new was done by the same parties by day labor. This work is now complete, with the exception of the connection with the new Belpaire boiler, which of course must be deferred until that boiler shall be placed in final position. The new chimney was first used on Monday, Nov. 16th.

Alterations are now being made in the steam piping, so that a supply may be had from the new Belpaire boiler to any or all of the engines at the same time. All the steam from this new boiler will pass through a Simpson eight-inch centrifugal separator. That portion which will supply engines Nos. 1 and 2 will pass through a Watt's regu-

lating valve, where the pressure of steam will be reduced to 30 pounds. The new piping has been so planned that any boiler may be used in connection with any of the three engines. The cost up to this date has been as follows, viz. :

Contract price, new smoke flue,	$1,190.64
Alterations old flues to connect with new work,	234.60
Pipe and specials,	336.14
Valves,	432.25
Simpson Separator,	150.00
Watt's Regulating Valve,	225.00
Other expenses,	616.27
	$3,184.90

It is expected that the new Belpaire fire-box locomotive type of boiler, which is now being built under contract with you by Edward Kendall & Sons, of Cambridgeport, will be in position and ready for use before the summer months. This boiler will occupy the space formerly held by boiler No. 1. It is designed to carry 160 pounds of steam, with the idea of replacing one of the present engines, some time in the future, with that of a triple expansion type. It is to have sufficient capacity to run any two engines in the building at the same time. A more detailed description of this boiler will be given when the report of its trial is rendered.

As the use of the old chimney has now been discontinued, I would recommend that it be removed as early in the spring as possible.

The distributing mains have been increased 16,018 feet, and there has been 3657 feet of pipe, previously laid, removed. The total number of miles of main pipe now in use is $64\frac{8824}{10000}$ miles.

The twenty-inch supply main has been continued from its former terminus in County street, fifteen feet south of

South street, southerly to Rivet street. This work required the placing of

1,257 feet 20 inch cast-iron pipe.
46 " 8 " "
113 " 6 " "
3 " 4 " "
7 stop-gates.
3 fire hydrants.

The cost was as follows, viz. :

Pipe,	$2,933.15	
Special castings,	255.21	
Gates,	308.32	
Hydrants,	114.00	
Lead and gasket,	221.20	
Repairing roadbed,	215.11	
Carting,	96.00	
Labor,	783.88	
Other expenses,	48.18	$4,974.96
Credit, by value of pipe, specials, etc., removed from County street,		411.02
Actual cost,		$4,563.94

A ten-inch main has been placed in Water street, from Grinnell street north to Leonard street. The six-inch pipe formerly in use has been removed. The material required was as follows :

1,026 feet 10 inch cast-iron pipe.
17 " 8 " "
10 " 6 " "
2 " 4 " "
3 stop-gates.
2 fire hydrants.

The cost was as follows, viz. :

Pipe,	$898.42
Special castings,	114.70
Gates and hydrants,	190.50
Lead and gasket,	85.50
Labor,	433.52

Carting,	38.00	
Other expenses,	3.00	$1,763.64
Credit, by value of pipe, specials, etc., removed from Water street,		323.27
Actual cost,		$1,440.37

The four-inch main in Prospect street, from Grinnell street to South street, has been replaced by a line of ten-inch cast-iron pipe. The material used was:

318 feet 10 inch cast-iron pipe.
6 " 6 " "
1 fire hydrant.

The cost was as follows, viz.:

Pipe,	$276.27	
Special castings,	32.76	
Hydrant,	38.00	
Lead and gasket,	24.80	
Labor,	96.45	
Carting,	11.00	$479.28
Credit, by value of pipe, specials, etc., removed from Prospect street,		52.62
Actual cost,		$426.66

An eight-inch main has been laid in Howland street from Water street to Prospect street, also in Prospect street from Howland street to Grinnell street. The four-inch pipe formerly in use in these streets has been removed. There were used:

928 feet 8 inch cast-iron pipe.
10 " 6 " "
11 " 4 " "
3 stop-gates.
2 fire hydrants.

The cost may thus be stated:

Pipe,	$619.75
Special castings,	69.38
Gates and hydrants,	174.58
Lead and gasket,	65.40

Labor,	285.52	
Carting,	20.50	
Other expenses,	2.00	$1,237.13
Credit, by value of pipe, specials, etc., removed from Howland and Prospect streets,		179.57
Actual cost,		$1,057.56

A twelve-inch main has been laid in Dean street, from Acushnet avenue east to Front street. There was used:

932 feet 12 inch cast-iron pipe.
12 " 6 " "
1 stop-gate.
2 fire hydrants.

The cost of this work was as follows, viz.:

Pipe,	$1,029.48	
Special castings,	177.68	
Gates and hydrants,	135.00	
Lead and gasket,	87.00	
Labor,	295.27	
Carting,	35.00	$1,759.43

There have been ten leaks upon the mains the past year, as herewith shown:

Date.	Size.	Location.	Cause.	Cost.
1891.				
Mar. 18	6-inch.	Front st., at Merrill's whf.	Joint started	$2.50
24	10 "	Purchase street, south of Linden.	" "	2.75
April, 10, 11	2 "	Main to Pope's Island, on the bridge.	Pipe froze.	48.89
May, 14, 15, 16	16 "	Force main in engine-house lot.	Pipe burst.	126.06
July 22	20 "	Pleasant street, north of William.	Joint started	5.10
24	6 "	Front street, foot of Commercial.	" "	1.50
25	8 "	Sawyer street, east of Acushnet avenue.	" "	1.00
Sept. 21	6 "	Katharine street, west of County.	" "	5.25
Oct. 10	20 "	County street, south of Grinnell.	" "	3.10
Nov. 3	10 "	Bolton rd., near Poplar rd.	" "	3.05

In considering the needs of the distributing system I submit the following list of special work, which is a part of a general plan for the enlargement of the mains east of Purchase street, and would suggest that the whole or a part may be included in the work of the coming year. The entire list calls for the placing of 7993 feet of cast-iron pipe of various sizes. It will require the removal of smaller sized pipe, 6205 feet of which is wrought-iron cement-lined, and 1345 feet cast-iron. The wrought-iron cement-lined pipe throughout the entire city is in doubtful condition, and the sooner it is replaced with cast-iron the more reliable will be the condition of our distributing system. The cast-iron pipe which is indicated for removal is all of small size, viz., 4-inch. An estimate of cost for doing all the work included in the list is placed at $18,855.

STREET.	LOCATION.	Size of Proposed Pipe.	Distance.	Size of Present Pipe.	
				Cast Iron.	Cement Lined.
Union,	Front to Water,	8-inch.	284 feet.	4-inch.	
"	Water to Purchase,	12 "	839 "		8-inch.
"	Purchase to Sixth,	10 "	495 "		8 "
Purchase	Union to North,	12 "	1,770 "		10 "
"	North to Pearl,	16 "	1,876 "		10 "
William,	Water to Purchase,	8 "	835 "	4-inch.	
"	Purchase to Pleasant,	10 "	237 "		4 "
Elm,	Purchase to Pleasant,	6 "	275 "		4 "
Middle,	Purchase to Pleasant,	6 "	268 "		6 "
Kempton	Purchase to Acushnet avenue,	10 "	247 "	None.	None.
"	Purchase to Pleasant,	10 "	226 "	4-inch.	
North,	Purchase to Pleasant,	8 "	222 "		4-inch.
Hillman,	Purchase to Pleasant,	10 "	223 "		8 "
Pearl,	Purchase to Pleasant,	10 "	196 "	None.	None.
	Total,	7993 feet.			

Three hundred and fifty-two service pipes have been laid during the past year, and four of those previously laid have been removed. The total number of services now in use is 6742.

One hundred and one service taps have been cleared, as follows, viz.: Rust, 98; trouble inside, 3.

Forty-two new hydrants have been set, and nineteen

previously set have been removed. Total number now in use, 499.

Thirty-eight new stop-gates have been set, and six previously set have been removed. Total number now in use, 701.

Two new waste-gates have been set, and one previously set has been removed. Total number now in use, 67.

Fourteen private stop-gates have been set, seven removed. Total number now in use, 157.

The total length of small sized distribution pipe (less than four-inch) is 5944 feet.

The total number of small sized stop-gates (less than four-inch) is 62.

The total number of motors is 33.

The total number of meters is 135.

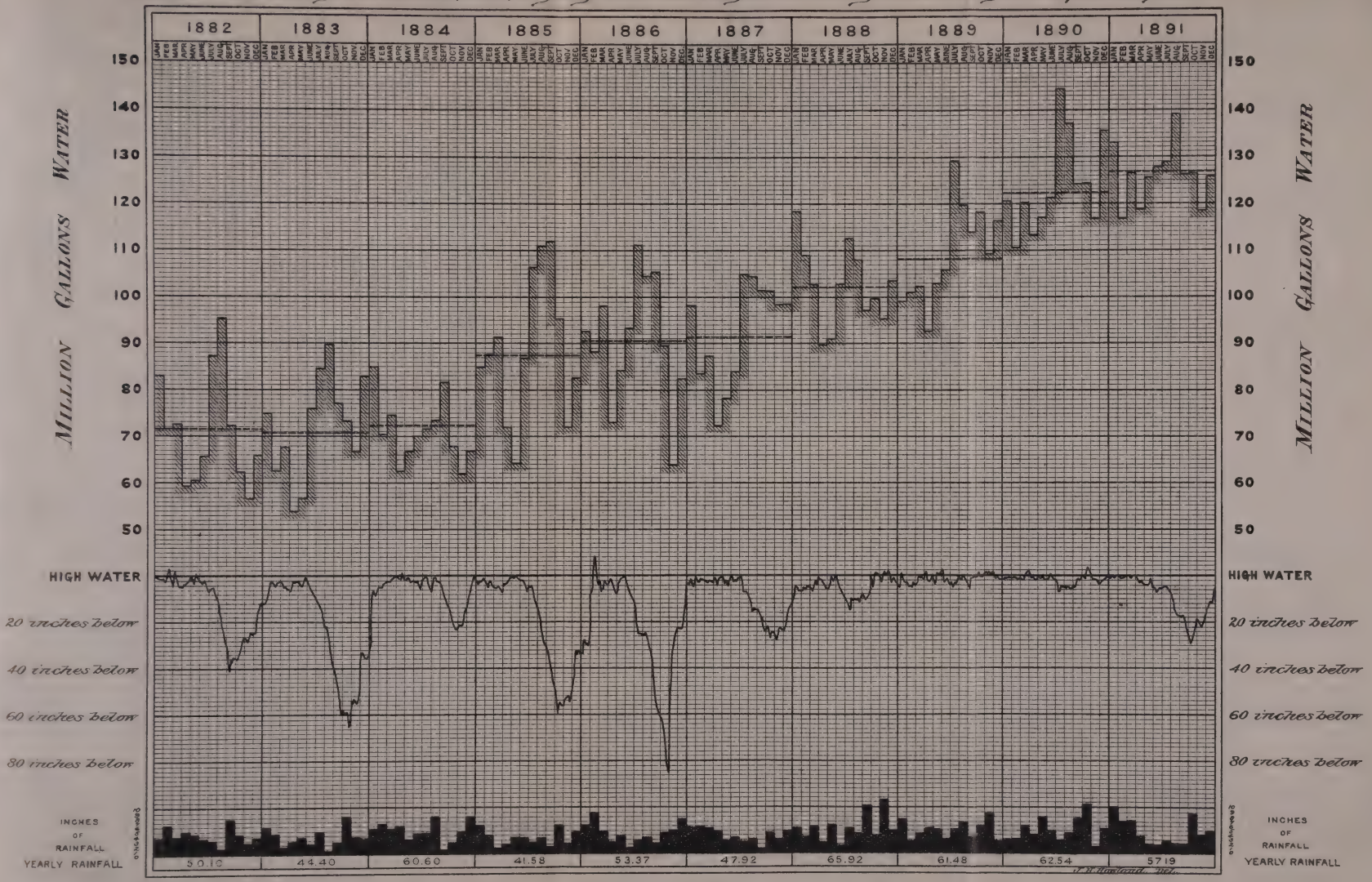
The following tables, together with the annexed diagram, present interesting statistics in regard to the consumption, the fluctuation of the water level in the storing reservoir, and the rainfall.

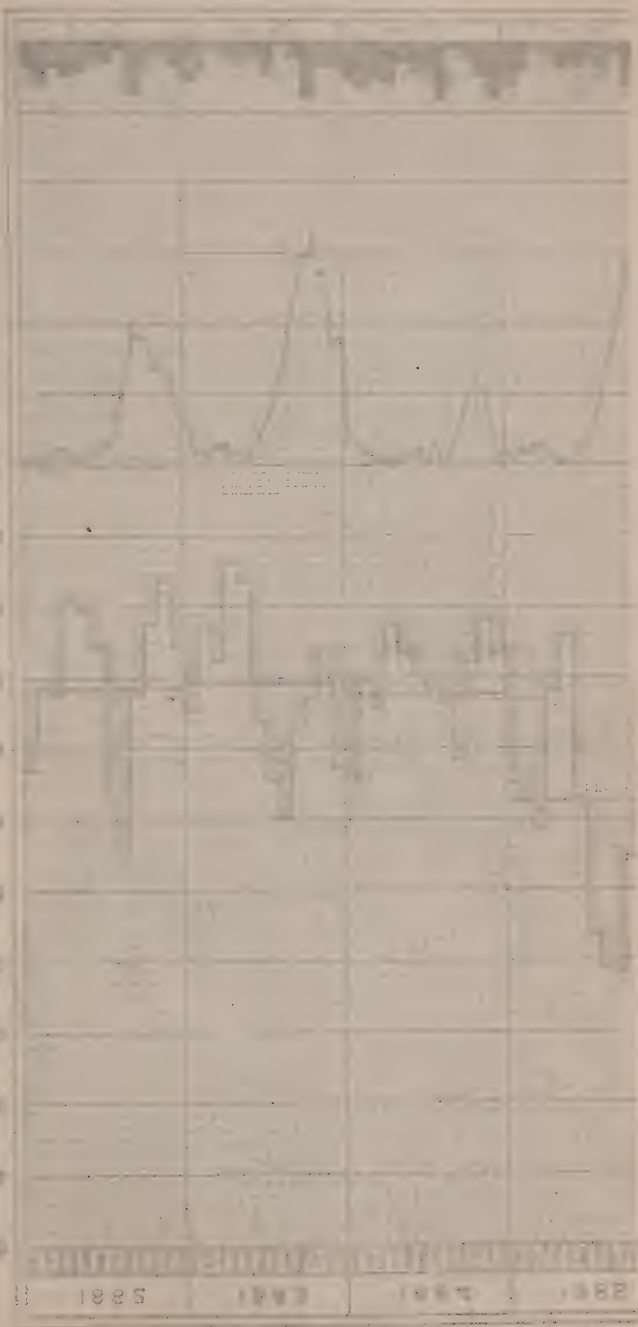
MONTHLY CONSUMPTION, AND RECORD OF PRESSURE AT THE CITY HALL.

1891. Month.	Monthly Consumption. Gallons.	Daily Average. Gallons.	Lbs. Pressure. 10 A. M.			Lbs. Pressure. Midnight.		
			Max.	Min.	Av.	Max.	Min.	Av.
January,	132,969,322	4,289,333	35	32	33	36	34	35
February,	116,756,637	4,169,880	35	32	33	36	34	35
March,	126,530,217	4,081,619	35	32	33	37	34	35
April,	118,815,969	3,960,532	35	30	33	37	34	35
May,	125,497,551	4,048,308	35	30	32	37	32	35
June,	127,758,379	4,258,612	35	30	32	37	34	35
July,	128,921,892	4,158,758	35	31	32	36	34	35
August,	139,048,188	4,485,425	35	30	32	35	32	34
September,	126,236,766	4,207,892	35	31	33	36	34	35
October.	126,286,595	4,073,761	34	31	33	36	34	35
November,	118,580,608	3,952,687	35	31	33	36	34	35
December,	125,759,358	4,056,754	34	31	33	36	33	35
Averages,	126,096,790	4,145,648	35	31	33	36	34	35

NEW BEDFORD WATER WORKS

DIAGRAM showing the consumption, height of water and rainfall at Storing Reserroir for the past ten years.





COMPARISON OF THE CONSUMPTION OF THE YEAR 1891 WITH THE RECORD OF THE TEN PREVIOUS YEARS.

Year.	Estimated Population.	Estimated No. of Consumers.	Total Number of Gallons Consumed.	Average Daily Consumption.	No. of Taps.	Gals. per day to each inhabitant.	Gals. per day to each consumer.	Gals. per day to each tap.
1881,	27,000	19,044	844,249,647	2,213,012	3925	86	122	589
1882,	28,500	20,424	859,119,622	2,326,352	4203	82	114	553
1883,	30,000	22,249	849,059,700	2,326,191	4465	78	105	521
1884,	33,000	23,749	867,815,595	2,371,080	4691	72	100	506
1885,	33,700	25,375	1,049,801,050	2,876,167	4965	85	113	579
1886,	34,500	28,480	1,086,534,615	2,976,807	5225	86	104	569
1887,	36,000	30,080	1,112,302,789	3,047,404	5495	85	101	555
1888,	37,500	31,826	1,229,841,794	3,360,223	5785	89	109	581
1889,	40,000	34,000	1,310,488,214	3,590,379	6104	90	106	588
1890,	41,500	35,740	1,485,143,213	4,066,200	6394	98	114	636
1891,	45,000	38,500	1,513,161,482	4,145,648	6742	92	108	615

The maximum daily consumption was on Tuesday, August 11th,—5,591,762 gallons; and the minimum was on Sunday, June 7th,—2,727,114 gallons.

No report of this character would be complete without allusion to the problem of reducing the waste of water. This evil continues with just as much force as ever, and the remarks made upon it in the last report are as pertinent now as when written. One source of this trouble exists, to a large degree, in the cheaper class of tenement houses, occupied by those who have little idea of responsibility and no regard whatever concerning the value of the liquid, the flow of which is placed under their control. On the supply to a house of this class in the northerly

part of the city, occupied by twelve families, a meter was placed several months ago. To the writer's knowledge, the owner has taken unusual pains to keep the plumbing in the best possible condition, and it is far above the average usually found in such houses. Yet in spite of all the pains taken, the water has been allowed to flow in such a reckless way that the meter has registered during the past year water to the value of $146.00. If schedule rates had been charged the bill would have amounted to $52.50. Had the water been used with any degree of care, the value of the amount registered by the meter could not possibly have exceeded the charge by schedule rate. It is clear that the only effective way to cope with this evil is to procure meters and apply them to every supply where it is suspected that there may be a lack of care.

Another source of waste may be found in our public buildings, especially school-houses. Fixtures get out of order, and so remain until some circumstance compels repairs. Long lines of fixtures, using a large volume per minute, are purposely allowed to run daily for hours at a time without benefit to any one. It is not so easy to meet these cases, as this department is reimbursed for the water supplied these buildings in the general appropriation for public purposes. The shutting off of the supply causes inconvenience and suffering to a large number of innocent people, and the funds at the disposal of the various departments will not generally permit of extended repairs being speedily accomplished. I have more than once shut off the water from a school building late in the evening, at the complaint of some neighbor of the disagreeable roar made by the water which had been left running. The person in charge of the building does not always exercise the care in seeing that all fixtures are kept in the good condition that he would if he were held accountable for each gallon of water that was used. If a meter were

placed on all of these supplies it would surely result in good, for we should then have the means of information of the amount used in each instance, and the need of repairs or lack of care in any case would quickly manifest itself.

The rapid growth of our municipality will eventually compel a heavy expenditure for the procuring of an additional supply of water. How long this expenditure can be postponed depends largely as to whether or not the problem of waste can so be met as to reduce this evil to a minimum.

Respectfully submitted.

R. C. P. COGGESHALL,
Superintendent.

TABLE A.

SHOWING RAINFALL AT STORING RESERVOIR FOR 1891.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1		.78	.16						.12			
2	1.97											
3	.16	1.02		2.12	.20							
4		.02	.70			.22	.30					
5	.41		.10							.38	.20	.34
6		.18							.55			
7									1.00			.90
8		.40					1.18			2.04		
9		.65	.30				.34					
10		.15	.93					.32				
11				.08							.15	
12	1.10			.65	.28						.05	
13			2.87		.05					.90		
14	.13		.10						.42	2.14		
15				.70				.48		.15		
16		.51			.82		.38		.01			.32
17	1.20	.58			.22						1.22	
18	2.10	.08				.60					.26	
19	.10					.08						
20		.40				.24				.81		
21		.15	1.73									
22	.75	.46	.40			.54				.04		
23	.30		.05	.20		.04				1.28		.30
24							.33				.50	.56
25	1.36	.02		.05								.60
26		1.46										.23
27	.10	.30			.08			.65		.99	1.69	.19
28						.08						
29					.36							
30	.40				.03			.67				1.58
31							.30	.20				
Totals.	10.08	7.16	7.34	3.80	2.04	1.80	2.73	2 32	2.10	8.73	4.07	5.02

Total fall for the year, 57.19.

TABLE A.

Showing Rainfall at Pumping Station for 1891.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1		.05							.01			
2	1.64					.02	.01	.30				
3	.14	.49		1.32	.21							
4			1.03	.02	.02	.09	.26			.01		.20
5	.36									.41		
6		.21						.02			.17	
7									1.53	.02		.84
8		.43					.63			2.12		
9			.87				.44					
10		.62						.03				
11	.74									.02	.11	
12				.49	.02			.09				
13			2.08		.04							
14	.12							.02	.26	1.67		
15				.23				.46		.13		
16		.01			.57		.47		.10			.22
17				.02	.90						.56	
18	3.58	1.03		.51	.01						.23	
19						.73	.04					
20		.53				.13	.03			.74		
21							.01					
22	.73	.64	1.61	.04		.52		.03				
23				.17		.10				.82		.21
24							.17	.03			.33	
25				.09								.98
26	.81				.10					.01		
27	.05	1.45						.27		.46	1.62	.27
28		.33	.01					.08	.03		.05	
29	.38					.04	.02		.04			
30					.35							.99
31	.62						.09	.84				
Totals.	9.17	5.78	5.61	2.89	2.22	1.63	2.17	2.17	1.97	6.41	3.07	3.71

Total fall for the year, 46.80.

TABLE A.

SHOWING RAINFALL AT NEW BEDFORD, AS REGISTERED BY T. R. RODMAN, FOR 1891.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1		.68							.06			
2		.54						.09				
3	1.76			1.24	.27							
4				.01		.16	.25					
5	.50		1.24							.43		.19
6		.26							.65		.16	
7									1.25	.01		.85
8		.57					.53			2.63		
9							.49	.01				
10		.63	.88								.03	
11											.10	
12	.72			.46	.03			.09			.04	
13			2.13									
14									.09	1.76		
15				.22				.50		.16		
16					.57		.33		.22			
17					1.18						.69	
18	3.40	.99										
19				.53			.04					
20										.75		
21		.96				.74	.02					
22	.74	.47	1.56	.05		.50		.01				
23				.17		.13				.78	.33	.14
24							.21	.02				.09
25	.82			.10								.88
26												
27	.07	1.60						.38		.45	1.76	.29
28		.30						.06	.01		.06	
29					.34		.01	.02				
30	.35								.03			.94
31					.05	.02	.09	.91				
Totals.	8.36	7.00	5.81	2.78	2.44	1.55	1.97	2.09	2.31	6.97	3.17	3.38

Total fall for the year, 47.83.

TABLE B.

Statement of Work done by Pumping Engine No. 1 (McAlpine) for the year ending December 1, 1891.

MONTHS.	Number of days pumping.	Total pumping time per month.	Total number of strokes per month.	Average number of strokes per minute.	FUEL.						Total number of gallons pumped per month, allowance being made for slip.	No. of gallons pumped per pound of coal for total coal.	No. of gallons raised 100 feet per pound of coal for total coal.	Av. dynamic head against pump in feet, no allowance for friction in suction.	Av. duty in pounds raised one foot high per 100 lbs. of coal, calculated on total fuel used for all purposes, no deductions.	Av. duty in pounds raised one foot high per 100 lbs. of coal, calculated on amt. of combustible coal used while pumping.
					lbs. of wood = 1 lb. of Coal	COAL.				Total fuel.						
						Raising steam and banking.	Ashes and clinkers.	Pumping.	Total.							
		H. M.	STROKES		LBS.	LBS.	LBS	LBS.	LBS.	LBS.	GALS.	GALS	GALS	FT.	LBS.	LBS.
December, 1890,	11½	206 00	191,632	15.5	0	7,200	12,181	74,319	93,700	93,700	56,148,176	599	806	134.56	67,247,801	84,784,766
January, 1891,																
February, "	24	429 30	399,174	15.5	117	15,000	25,571	154.129	194,700	194,817	116,957,982	601	807	134.23	67,207,642	84,949,562
March, "	15	264 5	246,927	15 6	0	8,400	15,821	95,479	119,700	119,700	72,349,611	604	811	134.33	67,714,413	84,892,125
April, "																
May, "	3	48 0	44,447	15.4	133	2,400	2,977	17,523	22,900	23,033	13,022,971	569	767	134 74	63,536,335	83 514,946
June, "	26	469 30	438,618	15.5	267	14,400	27,638	168,562	210,600	210,867	128,515,074	610	824	135.07	68,655 046	85,885,400
July, "	27	472 30	440,987	15.5	0	16,200	27,456	165,544	209,200	209,200	129,209,191	618	836	135.27	69,678,576	88,053,678
August, "	26	498 30	466,264	15.6	0	13,800	29,274	178,326	221,400	221,400	136,615,352	617	835	135 26	69,607.706	86,421,196
September, "	5	86 0	80,478	15.6	0	3,000	5,122	31,278	39,400	39,400	23,580,054	598	825	134 58	67,173,062	84,615,981
October, "	12	200 45	187,272	15.5	133	7,800	11,882	71,718	91,400	91,533	54,870,696	600	809	134 86	67,423,606	86,052,106
November, "	9	156 0	145,876	15.6	0	5,400	9,210	54,2?0	68,900	68,900	42,741,668	620	834	134.57	69,622,008	88,358,010
Totals and Av.,	158½	2,830 50	2,641,675	15.5	650	93,600	167,132	1,011,168	1,271,900	1,272,550	774,010,775	609	821	134.86	68,410.278	86,094,002

TABLE B.

Statement of Work done by Pumping Engine No. 2 (Worthington) for the year ending December 1, 1891.

MONTHS.	Number of days pumping.	Total pumping time per month.	Total number of strokes per month.	Average number of strokes per minute.	FUEL.						Total number of gallons pumped per month, allowance being made for slip.	No. of gallons pumped per pound of coal for total coal.	No. of gallons raised 100 feet per pound of coal for total coal.	Av. dynamic head against pump in feet, no allowance for friction in suction.	Av. duty in pounds raised one foot high per 100 lbs. of coal, calculated on total fuel used for all purposes, no deduction.	Av. duty in pounds raised one foot high per 100 lbs. of coal, calculated on amt. of combustible coal used while pumping.
					lbs. of wood = 3 lbs. of Coal	COAL.				Total fuel.						
						Raising steam and banking.	Ashes and clinkers.	Pumping.	Total.							
		H. M	STROKES		LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	GALS.	GALS	GALS	FEET.	LBS.	LBS.
December, 1890,	4½	109 20	122,695	18.7	0	0	4,810	32,190	37,000	37,000	18,158,860	491	617	125 75	51,470,798	59,161,837
January, 1891,																
February, "																
March, "	12¾	292 30	331,698	18 7	0	1,200	13,481	89,019	103,700	103,700	49,002,504	473	594	125.59	49,494,920	57,657,615
April, "																
May, "																
June, "																
July, "																
August, "	¼	11 30	13,210	19.1	0	600	572	3,228	4,400	4,400	1,955,080	444	557	125 54	46,522,177	63,413,129
September, "	2½	57 00	64,676	18.9	67	600	2,561	16,539	19,700	19,767	9,572,048	486	614	126.27	50,995,322	60,948,336
October, "																
November, "	3½	78 00	86.450	18.5	0	0	3,406	22,794	26,200	26,200	12,794,600	488	621	127.35	51,866,915	59,617,144
Totals and Av.,	23¾	548 20	618,129	18 8	67	2,400	24,830	163,770	191,000	191,067	91,483,092	479	603	125.96	50,238,363	58,682,038

TABLE B.

Statement of Work done by Pumping Engine No. 3 (Worthington) for the year ending December 1, 1891.

MONTHS.	Number of days pumping.	Total pumping time per month.	Total number of strokes per month.	Average number of strokes per minute.	FUEL.						Total number of gallons pumped per month, allowance being made for slip.	No. of gallons pumped per pound of coal for total coal.	No. of gallons raised 100 feet per pound of coal for total coal.	Av. dynamic head against pumps in feet, no allowance for friction in suction.	Av. duty in pounds raised one foot high per 100 lbs. of coal, calculated on total fuel used for all purposes, no deduction.	Av. duty in pounds raised one foot high per 100 lbs. of coal, calculated on amt. of combustible coal used while pumping.
					lbs. of wood = 1 lb. Coal	COAL.				Total fuel.						
						Raising steam and banking.	Ashes and clinkers.	Pumping.	Total.							
		H. M.	STROKES		LBS.	LBS.	LBS	LBS.	LBS.	LBS.	GALS.	GALS	GALS	FEET.	LBS.	LBS.
December, 1890,	13½	295 00	327,662	18.5	67	3,600	11,297	72,003	86,900	86,967	63,566,428	731	933	127.62	77,775,582	93,964,111
January, 1891,	27¾	621 30	689,515	18.5	0	4,800	23,365	151,585	179,750	179,750	133,765,910	744	945	126.96	78,796,969	93,437,709
February, "																
March, "	1	23 30	20,532	14 6	100	1,800	1,079	5,421	8,300	8,400	3,983,208	480	610	127 12	50,272,865	77,899,292
April, "	26¼	566 15	609,939	18.0	0	5,400	21,781	141.191	168,372	168,372	118,327,390	703	896	127.28	74,600,482	88,961,990
May, "	23¾	513 10	571,894	18 5	0	5,400	20,306	130,544	156,250	156,250	110,947,436	710	909	128.01	75,806,630	90,734,051
June, "																
July, "																
August, "																
September, "	19½	447 30	488,814	18 3	66	3,400	17,198	111,794	132,392	132,458	94,829,916	716	917	128.12	76,497,435	90,637,903
October, "	15½	335 00	371,720	18 5	0	3,000	13,279	85,871	102,150	102,150	72,113,680	706	902	127.81	75,250,636	89,516,279
November, "	13¾	280 30	318,335	19.0	100	4,400	10,951	68,899	84,250	84,350	61,756,990	733	938	127.94	78,122,014	95,641,328
Totals and Av ,	140	3,082 25	3,398,411	18.3	333	31,800	119,256	767,308	918.364	918,697	659,290,958	718	916	127.61	76,375,766	91,444,619

TABLE C.

Location and Size of Pipe laid in 1891.

STREETS.	CAST IRON.					
	20 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Arnold street, Tremont west,				324		
Babbitt street, from 208 feet west of Dartmouth west,					332	
Brownell street, from 144 feet south of Court to 295 feet south of Union,					418	
Bullock street, Austin south,					72	
Bullock street, Durfee to 2 feet south of Trinity,					303	
Campbell street, from 109.5 feet west of County west,						108
Cedar street, Trinity to Collins,					44	
Chancery street, from 408 feet north of Arnold to 82 ft. north of Union,						335
Coffin ave., from 348 ft. east of Acushnet ave. to 26 ft. east of Front st.,					100	
Coggeshall street, Rock to 228 feet east of Mitchell,					527	
Collins street, Cedar east,					144	
Cottage street, from 15 feet south of Kempton south,					158	
Cottage street, from 360 feet north of Locust north,						136
County street, Penniman north,					101	
County street, from Rivet street pipe line to 15 feet south of South,	1279					
Court street, from 300 feet east of Reed west to Palmer,				44		
Dean street, Acushnet avenue to 3 ft. west of Rock,		950				
Elm street, from 2 feet east of Reed to Reed street pipe line,					28	
Emerson street, from 67 feet south of Union to Arnold,						569
Fair street, County west,					28	
Front street, from 73 ft. s. of Coggeshall to 109 ft. north of Coggeshall,					232	
Fruit street, from 44 feet east of Mulberry to 26 feet west of Mulberry,					110	
Fruit street, Juniper east,					36	
Griffin street, Water east,						176
Hillman street, from 101 feet west of Chancery to 133 feet west of Park,					343	
Howland street, Water to Prospect,				411		
Hyacinth street, Rivet north,						284
Independence street, County west,					173	
James street, from 191 feet south of Union south,					200	
Juniper street, Larch to Rivet,						200

Location and Size of Pipe — *Continued.*

STREETS.	CAST IRON.					
	20 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Juniper street, Rivet to Fruit,					200	
Larch street, Dartmouth to Hemlock,					684	
Larch street, from 130 feet east of Hemlock to Juniper,					112	
Locust street, Shawmut avenue east,				73		
McGurk street, Middle Point road north,					296	
Mill street, from 171 feet west of Park west,					60	
Mill street, Hunter west,					153	
Mill street, from 23 ft. west of Beech west,					76	
Mitchell street, Coggeshall north,					212	
Myrtle street, from 17 feet south of Weld to 296 feet north of Weld,					363	
Nelson street, from 355 feet west of County west,					187	
Oak street, from 142 feet north of Grape north,					36	
Orchard street, Washington north,						121
Palmer street, Court south,					127	
Park street, from 54 feet south of North to Mill,				141		
Park street, from 75 feet south of Hillman to 289 feet north of Hillman,				404		
Pope street, from 81 ft. east of Chestnut east,					146	
Prospect street, from 11 feet south of Grinnell street to South,			321			
Prospect street, Howland to north line of Grinnell,				555		
Reed street, Elm north,					52	
Reynolds street, from 268 feet north of Weld north,					159	
Rock street, from 135 feet north of Coggeshall north,					96	
Rock street, Sawyer south,					247	
Rockland street, County east,				47		
Shawmut avenue, from 507 feet north of Parker to 203 ft. north of Locust,				230		
Smith street, County to Walden,					289	
Spruce street, from 227 feet north of Parker north,					61	
Thompson street, from 47 feet east of County street main to west line of County street,					65	
Union street, from 233 feet west of Ash to Chancery,					196	
Walden street, Sycamore to Smith,					282	
Ward street, Allen north,						168

Location and Size of Pipe — *Concluded.*

STREETS.	CAST IRON.					
	20 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Water street, from 4½ feet north from south line of Leonard to Grinnell,			1035			
Welcome street, from 186 feet east of French avenue east,					64	
Weld street, Reynolds to Myrtle,			237			
Willow street, from 12 feet west of Cedar to 306 feet east of Cedar,					358	
Totals,	1279	950	1593	2229	7870	2097

Taken Up.

STREETS.	CAST IRON.	
	6 in.	4 in.
County street, from Rivet street pipe line to 15 feet south of South,	1321	
Howland street, Water to Prospect,		411
Prospect street, from 11 feet south of Grinnell to South,		321
Prospect street, Howland to north line of Grinnell,		551
Thompson street, from Pipe line of County to west line of County,		18
Water street, from 4½ feet north from south line of Leonard to Grinnell,	1035	
Totals,	2356	1301

Summary.

	30 in	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Previous to 1891,									
Cement,					6,179	5,722	7,467	8,536	16,421
Cast-iron,	1879	2373	9,988	17,595	7,174	16,586	61,753	89,386	79,159
Cast iron laid in 1891,			1,279		950	1,593	2,229	7,870	2,097
Total pipe laid,	1879	2373	11,267	17,595	14,303	23,901	71,449	105,792	97,677
Cast-iron removed in 1891,								2,356	1,301
Total pipe now in use,	1879	2373	11,267	17,595	14,303	23,901	71,449	103,436	96,376

Total length laid in 1891. 16,018 feet = $3\frac{0337}{10000}$ miles.
Total length removed in 1891, 3657 feet = $\frac{6926}{10000}$ miles.
Total length of pipe now in use, 342,579 feet = $64\frac{8824}{10000}$ miles.

TABLE D.

Small Sized Distribution Pipe taken out in 1891.

STREET.	CAST IRON.
	2 inch.
Smith street, County east,	233
Total,	233

Laid previous to 1891, 6177 feet.
Taken out in 1891, 233 feet.
Total length in use, Dec. 1, 1891, 5944 feet = $1\frac{1258}{10000}$ miles.

TABLE E.

Location of Stop-Gates set in 1891.

STREETS.	LOCATION.	SIZE.					
		20 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Arnold, w. side James,	On west line James; 14.7 feet north from south line Arnold,				1		
Bullock, s. side Durfee,	On south line Durfee; 14.2 feet east from west line Bullock,					1	
Coggeshall, east side Rock,	On east line Rock; 18 feet north from south line Coggeshall,					1	
Collins, east side Cedar,	0.8 foot east from east line Cedar; 13.6 ft. north from s. line Collins,					1	
County, n. side Rivet,	0.3 foot north from north line Rivet; 13 feet east from west line County.	1					
Dean, east side Acushnet ave.,	1.5 feet east from east line Acushnet avenue; 14.5 feet north from south line Dean,		1				
Emerson, n. side Arnold,	0.3 ft. south from north line Arnold; 14.2 ft. east from w. line Emerson,						1
Fair, west side County,	On west line County; 13.3 feet north from south line Fair,					1	
Front, south side Coggeshall,	On south line Coggeshall; 17.7 feet east from west line Front.					1	
Front, north side Coggeshall,	On north line Coggeshall; 17.5 feet east from west line Front,					1	
Griffin, east side Water,	On east line Water; 13.5 feet north from south line Griffin,						1
Hillman, e. side Park,	On east line Park; 12.8 feet north from south line Hillman,					1	
Howland, e. side Water,	On east line Water; 13.4 feet north from south line Howland,				1		
Hyacinth, n. side Rivet,	On north line Rivet; 14 feet east from west line Hyacinth,						1
Independence, w. side County,	0.4 foot east from west line County; 18.4 ft. north from south line Independence.					1	
Juniper, n. side Rivet,	On north line Rivet; 14.5 feet east from west line Juniper,					1	
Juniper, s. side Rivet,	On south line Rivet; 13.2 feet east from west line Juniper,						1
Larch, east side Dartmouth,	On east line Dartmouth; 13.6 feet north from south line Larch,					1	
Locust, east side Shawmut ave.,	0.8 foot east from east line Shawmut ave.; 12.1 ft. n. from s. line Locust,				1		
McGurk, n. side Middle Pt. rd.,	On north line Middle Point road; 18 feet east from west line McGurk.					1	
Palmer, s. side Court,	0.3 foot south from south line Court; 17.9 feet east from w. line Palmer,					1	

LOCATION OF STOP-GATES SET IN 1891 — *Concluded.*

STREETS.	LOCATION.	SIZE.					
		20 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Prospect, s. side Howland,	On south line Howland; 13.8 feet east from west line Prospect,				1		
Prospect, south of Howland,	103.5 feet south from south line Howland; 14.5 feet east from west line Prospect,				1		
Rivet, east side County,	On east line County; 14.6 feet north from south line Rivet,				1		
Rock, south side Sawyer,	On south line Sawyer; 17.9 feet east from west line Rock,					1	
Rockland, e. side County,	On east line County; 14.3 feet north from south line Rockland,				1		
Rodman, e. side Front,	5 feet west from east line Front; 14 feet north from south line Rodman,						1
Second, s. side North,	On south line North; 13.5 feet east from west line Second,					1	
Smith, east side County,	On east line County; 15 feet north from south line Smith,					1	
Thompson, east side County,	0.5 foot west from east line County; 14.3 feet north from south line Thompson,					1	
Thompson, west side County,	On west line County; 14.5 feet north from south line Thompson,					1	
Walden, n. side Sycamore,	0.5 foot north from north line Sycamore; 14 feet east from west line Walden,					1	
Ward, north side Allen,	0.5 foot north from north line Allen; 13.1 feet east from west line Ward,						1
Water, south side Griffin,	On south line Griffin; 14 feet east from west line Water,			1			
Water, north side Grinnell,	1 foot north from south line Grinnell; 13.7 feet east from west line Water,			1			
Weld, west side Reynolds,	On west line Reynolds; 17.5 ft. north from south line Weld,			1			
Willow, east side Cedar,	On east line Cedar; 19.7 feet north from south line Willow,					1	
Willow, w. side Cedar,	2 feet west from west line Cedar; 12.6 ft. north from s. line Willow,					1	
	Totals,	1	1	3	7	20	6

Removed.

County street, north side Rivet,	6-inch.
Howland street, east side Water,	4-inch.
Rodman street, 78 feet east of Front,	4-inch.
Thompson street, west side County,	4-inch.
Water street, south side Griffin,	6-inch.
Water street, north side Grinnell,	6-inch.

Number of stop-gates set in 1891,	38
Number removed in 1891,	6
	32
Number in use at date of last report,	669
Number in use December 1st, 1891,	701

TABLE F.

Small Sized Stop-Gate Removed in 1891.

Smith street, east side County,	2-inch.

Number of small sized stop-gates set previous to 1891,	63
Number removed in 1891,	1
Number in use December 1, 1891,	62

TABLE G.

Private Stop-Gates set in 1891.

STREETS.	LOCATION.	SIZE. 6 in.	4 in.	3 in.	2 in.
Central wharf, at meter,	107.5 feet east of Front street; 65.7 ft. south from north line Centre,			1	
Centre, at Gifford & Baker's.	40.6 feet west from Front street; 5.8 feet south from north line Centre,				1
Grinnell, at City Mfg. Co.,	At City Manufacturing Co. meter,	3			
Merrill's wharf, at meter,	193.4 feet east from Front street; 3.3 feet north from south line building,				1
Prospect, at City Mfg. Co.,	85.7 feet north from South street; 10.4 feet west from east line Prospect,	1			
Rotch's wharf,	181.8 feet east from Front street; 19.5 ft. south from s. line Rhodes' fact'y,			1	
Sawyer, at Bennett Mill,	15.2 feet west from west line office; 9.5 feet north from south line Sawyer,	1			
Sawyer, at Bennett Mill,	17.7 feet west from west line office; 9.9 feet north from south line Sawyer,	1			
Sawyer, at Bennett Mill,	30.2 feet east from east line Mill No. 2; 7.5 ft. north from south line Sawyer,	1			
Second, at Hathaw'y, Soule & Harring's,	34.8 feet south from North street; 7.6 feet east from west line Second,	1			
South, at City Mfg. Co.,	0.6 foot west from east line Prospect; 36.6 ft. south from s. line Mill No. 2,	1			
Taber's wharf, at meter,	1.7 feet east from O. C. R. R. fence; 16 feet south from south line building,		1		
	Totals.	9	1	2	2

Removed.

Central wharf, at meter, (old location,)	1 3-inch.
Grinnell street, at City Manufacturing Co.,	2 6-inch, 1 4-inch.
Merrill's wharf, at meter,	1 2-inch.
Sawyer street, at Bennett Mill,	1 4-inch.
Taber's wharf, at meter,	1 3-inch.

Number set during 1891,	14
Number removed during 1891,	7
To be added to number previously reported,	7
Number in use at date of last report,	150
Total number in use Dec. 1, 1891,	157

TABLE H.

Waste Gates set in 1891.

STREETS.	LOCATION.	SIZE. 4 in.
Rivet, at County,	22.5 feet east from west line County; 21.3 feet south from north line Rivet,	1
Water, north of Grinnell,	191.4 feet north from north line Grinnell; 17.2 feet east from west line Water,	1
	Total,	2

Removed.

Water street, 246 feet north of Grinnell,	4-inch.
Number set in 1891,	2
Number removed in 1891,	1
To be added to number last reported,	1
Number in use at date of last report,	69
Total number in use Dec. 1, 1891,	70

TABLE I.

Location of Hydrants set in 1891.

Arnold street, south side, 15.3 feet west of James.
Babbitt street, south side, 539.5 feet west of Dartmouth.
Brownell street, west side, 294 feet south of Union.
Bullock street, southwest corner Trinity.
Campbell street, south side, 216.5 feet west of County.
Coffin avenue, southeast corner Front street.
Coggeshall street, southeast corner Rock.
Coggeshall street, south side, 227.4 feet east of Mitchell.
Collins street, south side, 72.4 feet west of Glover.
Dean street, southeast corner Front.
Dean street, southwest corner Rock.
Elm street, southeast corner Palmer.
Emerson street, west side, 173.8 feet north of Arnold.
Fruit street, south side, 25.5 feet west of Mulberry.
Howland street, south side, 19.2 feet west of Prospect.
Independence street, south side, 153.7 feet west of County.
James street, west side, 215.6 feet north of Arnold.
Larch street, south side, 120 feet east of Mulberry.
McGurk street, west side, 259 feet north of Middle Point road.
Mill street, south side, 138 feet west of Hunter.
Mill street, south side, 97.9 feet west of Beech.
Mitchell street, west side, 178.8 feet north of Coggeshall.
Myrtle street, west side, 294.5 feet north of Weld.
Nelson street, south side, 541.6 feet west of County.
Oak street, west side, 176.9 feet north of Grape.
Palmer street, west side, 113 feet south of Court.
Park street, southwest corner Hillman.
Park street, west side, 27.1 feet south of Maxfield.
Pope street, south side, 226 feet east of Chestnut.
Prospect street, west side, 275.2 feet north of Grinnell.
Reed street, west side, 25 feet north of Elm.
Reynolds street, west side, 17.9 feet south of Clark.
Rivet street, southwest corner County.
Rock street, northwest corner Beetle.
Rockland street, southwest corner County.
Sawyer street, south side, 418.8 feet east of Mitchell.
Shawmut avenue, west side, 38.7 feet north of Locust.
South street, southwest corner Prospect.
Thompson street, southwest corner County.
Water street, southwest corner Howland.
Water street, northwest corner Grinnell.
Willow street, south side, 305.1 feet east of Cedar.

(The entire list, Post Hydrants.)

Taken Up.

Brownell street, west side, 74 feet north of Union,	Post.
Coffin avenue, south side, 347 feet east of Acushnet avenue,	"
Coggeshall street, south side, 75 feet west of Rock,	"
County street, northwest corner Rockland,	Flush.
County street, southwest corner Thompson,	Post.
County street, northwest corner Rivet,	"
Elm street, southeast corner Reed,	"
Fruit street, south side, 45 feet east of Mulberry,	"
James street, west side, 192 feet south of Union,	"
Nelson street, south side, 354 feet west of County,	"
Oak street, west side, 141 feet north of Grape,	"
Pope street, south side, 80 feet east of Chestnut,	"
Prospect street, west side, 157 feet south of Howland,	Flush.
Reynolds street, west side, 268 feet north of Weld,	Post.
Sawyer street, north side, opposite Bennett Mills,	"
South street, southwest corner Prospect,	Flush.
Taber's wharf, south side, 36 feet north of Union,	"
Water street, northwest corner Howland,	"
Water street, northwest corner Grinnell,	"

Total number set during 1891,	42
Total number removed during 1891,	19
To be added to number last reported,	23
Number in use at date of last report,	476
Total number in use Dec. 1, 1891,	499

(The hydrant, French avenue, southwest corner Cove street, was removed in 1890.)

TABLE J.

Location of Watering Cart Hydrants set in 1891.

Commercial street, south side, 20.2 feet east of Water.
County street, west side, 32.2 feet north of Allen.
Elm street, south side, 57.4 feet west of Purchase.
Spring street, south side, 49 feet west of Sixth.

Taken Up.

Pleasant street, east side, 9 feet north of Mechanics lane.

Number set during 1891,	4
Number removed during 1891,	1
To be added to number last reported,	3
Nnmber in use at date of last report,	37
Total number now in use,	40

TABLE K.

Statement of Work done by the Service Department for the year ending Dec. 1, 1891.

KIND AND SIZE.	Number of Services.	Length on Taker.	Length on City.
Lead pipe, ⅝-inch, heavy,	98	1,969	1,379.5
" ¾-inch, heavy,	96	1,991	853.0
" ¾-inch, light,	94	2,001	928.0
" ¾-inch, heavy,	2	30	126.0
" ¾-inch, light,	54	1,094	628.5
" 1-inch, heavy.	3	54	49.5
" 1-inch, light.	2	52	97.0
Wrought-iron pipe, 1-inch,	1	228	
" " 2-inch,	1	28	
Cast-iron pipe, 6-inch,	1	17	
Totals.	352	7,464	4,061.5

One ¾-inch light, and three ¾-inch heavy services have been removed.

Four connections to services previously laid have been made by owners.

Length of service pipe laid during the year, 11,525.5 feet = $2\frac{1828}{10000}$ miles.

Total number of services in use, December 1, 1891, 6742.

TABLE L.

Meters.

LOCATION.	Pattern.	Size.
Acushnet Coöperative Association, 213 Acushnet avenue,	Union rotary.	1 inch.
Acushnet Mill No. 1.	Union rotary.	6 "
Acushnet Mill No. 2.	Union rotary.	4 "
Allen, John S., 100 State street,	Union rotary.	⅝ "
Allen, John S., 102 State street,	Crown.	⅝ "
Allen, Mrs. John, 343 Purchase street,	Crown.	⅝ "
Allen, Timothy C., 188 Grinnell street,	Crown.	⅝ "
Baker, Michael A., 82 Chestnut street,	Crown.	¾ "
Bates, J. W., Kempton and Cottage streets,	Crown.	¾ "
Bennett Mill,	Union rotary.	6 "
Blackler, Mrs. A. M., 111 Summer street,	Union rotary.	¾ "
Boivin, Nazaire, 7 Hicks street,	Union rotary.	1½ "
Brightman, George A., 35 Smith street,	Crown.	½ "
Brightman, Nathan, 107 Elm street,	Crown.	¾ "
Briggs, Daniel D., 43 Bedford street,	Crown.	⅝ "
Briggs, George E., Dartmouth street,	Union rotary.	1½ "
Brownell, Albion T., Madison and Fifth sts.,	Crown.	⅝ "
Brownell, Charles H., Florence street,	Crown.	⅝ "
Buffington, Arthur E., 27 Crapo street,	Crown.	½ "
Butler, William P., 797 South Water street,	Hersey.	⅝ "
Caldwell, S. C., 365 Pleasant street,	Union rotary.	⅝ "
Caldwell, S. C., 367 Pleasant street,	Crown.	⅝ "
Central Union Association, 5 North Sixth st.,	Thomson.	1½ "
Central wharf,	Crown.	2 "
Cemetery, Rural, Dartmouth street,	Crown.	2 "
Cemetery, Oak Grove, Parker street,	Crown.	3 "
Chadwick, Edward E., William street,	Crown.	3 "
Chase, Nathan, 485 County street,	Crown.	¾ "
Childs, A. F., 6 Wing street,	Hersey.	⅝ "
City Manufacturing Co., Grinnell street,	Union rotary.	6 "
Commercial wharf,	Union rotary.	3 "
Cornell, Pardon, Sixth and Grinnell streets,	Crown.	1 "
Davis, Abner T., 34 Fifth street,	Union rotary.	⅝ "
Dawson, Benjamin, Purchase and Hazard sts.,	Crown.	1½ "
Dowden, James, 35 Mill street,	Union rotary.	¾ "
Duff, David & Son, Central wharf,	Crown.	1 "
Duff, David & Son, Fish Island,	Union rotary.	1½ "
Electric Light Co., Middle street,	Union rotary.	2 "
Elliot, John D., 106 Fourth street,	Hersey.	⅝ "
Fish, L. C., 59 Sycamore street,	Crown.	¾ "
Folger, David B., 140 Union street,	Thomson,	1 "
Folsom, Simeon, Middle and Purchase streets,	Union rotary.	1 "
Gifford, T. J., Ashland and Austin streets,	Crown.	⅝ "
Gifford, T. J., 34 Hillman street,	Crown.	¾ "
Gifford, T. J., 32 Hillman street,	Crown.	⅝ "
Gifford & Baker, Centre street,	Hersey.	2 "
Grinnell Mill, Kilburn street,	Union rotary.	4 "
Hall, S. M., 161 Pleasant street,	Crown.	¾ "

METERS — *Continued.*

LOCATION.	PATTERN.	SIZE.
Hammond, Henry F., 79 Mill street,	Crown.	¾ inch.
Haskell, Edward S., South Sixth street,	Hersey.	¾ "
Haskell & Tripp, William street,	Union rotary.	2 "
Hastings, George, Hastings' building, Purchase street,	Crown.	1 "
Hathaway Mill,	Union rotary.	4 "
Hathaway, James C., Florence and Kempton streets,	Crown.	¾ "
Hayes, N. P., William street,	Crown.	1 "
Hazard's wharf,	Union rotary.	2 "
Howland, Mary G., 97 Grinnell street,	Crown.	½ "
Howland, Mary G., 134 Acushnet avenue,	Crown.	½ "
Howland, George's wharf,	Ball & Fitts.	2 "
Howland, Paul, estate, 91 State street,	Union rotary.	¾ "
Howland Mill No. 1,	Union rotary.	6 "
Howland Mill No. 2,	Union rotary.	6 "
Jay, James A., Second street,	Hersey.	1 "
Journal Publishing Co., 88 Purchase street,	Crown.	⅝ "
Kane, D. J. & Bro., 134 Union street,	Crown.	⅝ "
Kirby, Tillinghast, 350 Cottage street,	Crown.	¾ "
Lawton, James M., Jr., 80 State street,	Crown.	¾ "
Lawton, James M., Jr., 202 Union street,	Hersey.	¾ "
Lewis, E. R., 321 Union street,	Crown.	1 "
Longfield, Joseph S., 52 Shawmut avenue,	Crown.	⅝ "
Lowe, James H., 931 Acushnet avenue,	Crown.	⅝ "
Lowell, Clarence, 40 Fifth street,	Crown.	⅝ "
Macomber, William B., 74 State street,	Hersey.	⅝ "
Macy, J. Roland, 186 Union street,	Crown.	1 "
Marquand, James, 35 Maxfield street,	Crown.	⅝ "
Merrill's wharf,	Union rotary.	2 "
Monte Pio Coöperative Association, Acushnet avenue and Howland street,	Thomson.	1 "
Mosher, C. E. E. and H. C. W., 92 High st.,	Crown.	¾ "
Moynan & Co., Union street,	Union rotary.	3 "
Mt. Washington Glass Works, Prospect st.,	Union rotary.	2 "
Murkland, James H., 35 Fifth street,	Hersey.	⅝ "
Murkland, James H., 55 Walnut street,	Hersey.	⅝ "
Myrick, A. G., 101 Middle street,	Hersey.	⅝ "
Nash, Thomas N., Acushnet av. and Nash rd.,	Crown.	½ "
New Bedford & Martha's Vineyard Steamboat Co.'s wharf,	Crown.	3 "
New Bedford Gas Light Co., Coffin street,	Union rotary.	3 "
New Bedford Gas Light Co., So. Water st.,	Hersey.	1 "
New Bedford Gas Light Co., So. Water st.,	Hersey.	2 "
New Bedford Manufacturing Co.,	Union rotary.	6 "
New Bedford Manufacturing Co., North st.,	Union rotary.	6 "
New Bedford Yacht Club, Pope's Island,	Ball & Fitts.	1 "
Nichols, Leander P., 59 Foster street,	Union rotary.	¾ "
Nichols, Leander P., 49 North street,	Union rotary.	¾ "
Nye, William F., Fish Island,	Crown.	1½ "
Old Colony Railroad Co., Logan street,	Crown.	3 "

METERS — *Concluded.*

LOCATION.	PATTERN.	SIZE.
Oneko Mills, Purchase street,	Union rotary.	6 inch.
Pairpoint Manufacturing Co., Prospect street,	Union rotary.	3 "
Pairpoint Manufacturing Co., Hastings whf.,	Hersey.	2 "
Palmer, W. L., 30 Allen street,	Thomson.	⅝ "
Parker, George H., Parker and Chestnut sts.,	Thomson.	⅝ "
Parker House, Purchase street,	Crown.	⅝ "
Perry, E. S., Maxfield and Summer streets,	Crown.	⅝ "
Perry, J. W., 62 Thomas street,	Crown.	⅝ "
Perry, Henry C., 671 County street,	Crown.	⅝ "
Pelan, Thomas, 278 Kempton street,	Crown.	⅝ "
P. & R. Coal and Iron Co.'s wharf,	Crown.	3 "
Pickens, George, 149 Summer street,	Union rotary.	¾ "
Pierce, Frank E., 87 Mill street,	Crown.	⅝ "
Poisson, Joseph, 56 Mill street,	Crown.	⅝ "
Pope's Island Manfg. Co., Pope's Island,	Crown.	1 "
Potter, William F. & Co., Front street,	Crown.	1 "
Potomska Mills, Potomska street,	Union rotary.	6 "
Price Alexander, 110 County street,	Crown.	⅝ "
Priestley, George, 28 Parker street,	Union rotary.	¾ "
Quimby, Ezra, 135 Summer street,	Crown.	¾ "
Robeson Building, William street,	Crown.	½ "
Rotch's wharf,	Union rotary.	2 "
Shaw, Dr. J. C., 23 South Sixth street,	Crown.	1 "
Sherman, I. C. & Son, 76 Union street,	Union rotary.	2 "
Sisson, Joseph S., Allen and Cottage streets,	Thomson.	1 "
Smalley, Orrick, Jr., 69 South Sixth street,	Crown.	⅝ "
Stanton, A. G., 198 Grinnell street,	Crown.	⅝ "
Sturtevant, Levi H., 36 North street,	Union rotary.	1 "
Swan, Edward, 20 South Front street,	Union rotary.	2 "
Taber's wharf,	Crown.	2 "
Thatcher, George M. Rockland street,	Crown.	1 "
Thornton, Alfred, 256 Union street,	Crown.	⅝ "
Tillinghast, Theodore F., Hicks street,	Crown.	⅝ "
Vaughan, W. C., Jr., 323 Purchase street,	Crown.	⅝ "
Walker, William, County and Campbell sts.,	Crown.	¾ "
Wamsutta Mills, Nos. 1, 2 and 3,	Union rotary.	6 "
Wamsutta Mills, Nos. 4 and 5,	Union rotary.	8 "
Wamsutta Mill No. 6,	Union rotary.	6 "
Webster, Dr. Helen M., Purchase and Mill sts.,	Equitable.	1 "
Wilde, William T., 50 Katharine street,	Hersey.	⅝ "

Number of meters in use, December 1, 1891, 135.

TABLE M.

Motors.

LOCATION.	Used For.	Size of Supply Pipe.
Acushnet Coöperative Association, 213 Acushnet avenue,	Grinding coffee.	1 inch.
Baptist Church, William street,	Blowing organ.	2½ "
Boivin, Nazaire, 7 Hicks street,	Circular saw.	2 "
Briggs, George E., Dartmouth street,	Lathe.	2 "
Central Union Store, 5 North Sixth street,	Grinding coffee.	1¼ "
Chadwick, Edward E., William street,	Sausage cutting.	2 "
Cummings, C. S. & B., 102 William street,	Grinding coffee.	2 "
Dawson, Benj., Purchase and Hazard sts.,	Elevator.	1½ "
Driscol, Church & Hall, Union and First,	Elevator.	3 "
Folger, David B., 140 Union street,	Grinding coffee.	1 "
Gifford & Baker, Centre street,	Wood working machinery.	2 "
Haskell & Tripp, William street,	Elevator.	3 "
Hayes, N. P., William street,	Elevator.	1 "
Jay, James A., 13 South Second street.	Clipping machine.	1 "
Kane, D. J. & Bro., Union street,	Book bindery.	2 "
Macy, J. Roland, 186 Union street,	Grinding coffee.	1 "
Monte Pio Coöperative Association, Acushnet avenue and Howland street,	Grinding coffee.	2 "
Moynan & Co., Union street,	Elevator.	3 "
Nesbett, F. B., 160 Purchase street,	Dentist.	⅝ "
N. B. Gas Light Co., South Water street,	Elevator.	2 "
North Congregational Church, Purchase and Elm streets,	Blowing organ.	3 "
Palmer, William L., 30 Allen street,	Grinding coffee.	2 "
Parker House, Purchase street,	Cash system.	1 "
Potter, W. F. & Co., Front and Union sts.,	Grinding coffee.	1 "
Sherman, I. C. & Son, 76 Union street,	Elevator.	3 "
St. John Baptist Church, Fifth street,	Blowing organ.	2 "
St. Lawrence Church, County and Hillman streets.	Blowing organ.	3 "
Sisson, Joseph S., Allen and Cottage sts.,	Grinding coffee.	2 "
Swan Edward, Front street,	Wood turning.	3 "
Thatcher, George M., Rockland street,	Lathe.	1 "
Trinitarian Church, Fourth and School sts.,	Blowing organ.	3 "
Unitarian Church, Union and Eighth sts.,	Blowing organ.	3 "
Ward, Dr. E. F., Union and Sixth streets,	Sewing Machine.	⅝ "

Total number of motors in use, December 1, 1891, 33.

TABLE N.

Watering Cart Hydrants.

Acushnet avenue, west side, 4.5 feet north from north line South Belleville road.
Acushnet avenue, west side, 13.5 feet north from north line North Belleville road.
Acushnet avenue, west side, 11.9 feet south from south line Tarkiln Hill road.
Allen street, north side, 154 feet east of Page.
Bedford street, south side, 86 feet west of Fourth.
Campbell street, south side, 87 feet west of Purchase.
Cedar Grove street, south side, 18 feet west of Acushnet avenue.
Coffin avenue, south side, 16.5 feet west of Acushnet avenue.
Commercial street, south side, 20.2 feet east of Water.
County street, west side, 32.2 feet north of Allen.
Court street, north side, 15 feet east of Ash.
Dartmouth street, east side, 13 feet south of Oak.
Elm street, south side, 57.4 feet west of Purchase.
First street, west side, 118 feet south of School.
First street, west side, 28 feet south of Grinnell.
Grinnell street, south side, 31 feet east of County.
Hawthorn street, south side, 17 feet east of Cottage.
Hawthorn street, head of Tremont.
Hazard street, south side, 21 feet west of Purchase.
Kempton street, south side, 72 feet west of County.
Kempton street, south side, 102 feet east of Newton.
Kempton street, south side, 16 feet east of Rockdale avenue.
Linden street, south side, 30 feet west of Purchase.
Locust street, south side, 25 feet west of County.
Madison street, south side, 17 feet east of Fourth.
Madison street, south side, 39 feet west of County.
Mill street, south side, 9 feet west of Purchase.
Middle Point road, south side, 58 feet east of French avenue.
Mt. Vernon street, south side, 14 feet west of Mt. Pleasant.
Reynolds street, west side, 8 feet north of Linden.
Robeson street, south side, 38 feet west of Cedar.
Smith street, south side, 53 feet east of Park.
Spring street, south side, 49 feet west of Sixth.
Summer street, west side, 4 feet north of Hillman.
Sycamore street, south side, 77 feet west of County.
Thompson street, south side, 72 feet west of Warwick.
Union street, south side, 65 feet west of County.

Water street, west side, 6 feet south of Blackmer.
William street, south side, 27 feet east of Second.
Willis street, south side, 7½ feet east of Acushnet avenue.

Number now in use, 40.

TABLE O.

Location of Hydrants.

	Pressure in lbs.
Acushnet avenue, west side, 267 feet north of Tarkiln Hill road. Post.	53
Acushnet avenue, southwest corner of Tarkiln Hill road. Post.	55
Acushnet avenue, west side, south of Tarkiln Hill road 500 feet. Post.	54
Acushnet avenue, west side, south of Tarkiln Hill road 997 feet. Post.	53
Acushnet avenue, west side, north of North Belleville road 600 feet. Post.	53
Acushnet avenue, west side, north of North Belleville road 6 feet. Post.	54
Acushnet avenue, west side, south of North Belleville road 601 feet. Post.	55
Acushnet avenue, west side, north of Shaw 610 feet. Post.	51
Acushnet avenue, northwest corner of Shaw. Post.	47
Acushnet avenue, west side, north of South Belleville road 603½ feet. Post.	45
Acushnet avenue, west side, head of South Belleville road. Post.	42
Acushnet avenue, northwest corner of Nash road. Post.	40
Acushnet avenue, northwest corner of Hathaway avenue. Post.	40
Acushnet avenue, northwest corner of Davis. Post.	41
Acushnet avenue, southwest corner of Phillips avenue. Post.	39
Acushnet avenue, southwest corner of Deane. Post.	48
Acushnet avenue, west side, north of Sawyer 574½ feet. Post.	53
Acushnet avenue, southwest corner of Coggeshall. Post.	56
Acushnet avenue, southwest corner of Cedar Grove. Post.	54
Acushnet avenue, west side, south of Logan 335 feet. Post.	60
Acushnet avenue, west side, north of Wamsutta 514 feet. Double.	62
Acushnet avenue, west side, north of Wamsutta 372 feet. Post.	60
Acushnet avenue, west side, south of Wamsutta 255 feet.	63
Acushnet avenue, west side, at end of Wall street. Post.	62
Acushnet avenue, southeast corner of Pope.	64
Acushnet avenue, northwest corner of Willis.	61

Acushnet avenue, west side, south of Campbell 179 feet. 59
Acushnet avenue, northwest corner of Maxfield. 57
Acushnet avenue, northwest corner of Kempton. 47
Acushnet avenue, northeast corner of Elm. 47
Acushnet avenue, northwest corner of School. Post. 51
Acushnet avenue, northwest corner of Madison. Post. 57
Acushnet avenue, northwest corner of Russell. Post. 58
Acushnet avenue, northwest corner of Bedford. Post. 60
Acushnet avenue, west side, opposite Howland. 61
Acushnet avenue, northwest corner of Potomska. Post. 50
Acushnet avenue, west side, north of Rivet 158 feet. Post. 59
Acushnet avenue, southwest corner of Blackmer. 60
Allen street, southeast corner of Bonney. 46
Allen street, northwest corner of Ward. 41
Allen street, north side, east of Page 159 feet. 38
Arch street, southwest corner of Union. 24
Arnold street, south side, west of Orchard 96 feet. Post. 22
Arnold street, southwest corner of Chancery. 33
Arnold street, southeast corner of Atlantic. 32
Arnold street, south side, 15.3 feet west of James. Post. 24
Ash street, northwest corner of Middle. 27
Ash street, southwest corner of Morgan. Double. 25
Ash street, northwest corner of Arnold. 32
Ash street, northwest corner of Maple. 34
Ash street, northwest corner of Bedford. Post. 37
Ashland street, west side, head of Linden. 11
Atlantic street, west side, 186 feet south of Arnold. Post. 29
Atlantic street, west side, 390 feet north of Arnold. Post. 30
Austin street, southeast corner of State. Post. 42
Austin street, southwest corner of Purchase. Post. 56
Austin street, southeast corner of Cedar. Post. 19
Austin street, south side, on west line of Wilson. Post. 20
Austin street, southwest corner of Ashland. Post. 15
Austin street, southeast corner of Shawmut avenue. Post. 14
Babbitt street, south side, 207.5 feet west of Dartmouth. Post. . . 42
Babbitt street, south side, 539.5 feet west of Dartmouth. Post. . . 38
Bedford street, southwest corner of Fifth. Post. 55
Bedford street, southeast corner of County. 47

Bedford street, southeast corner of Orchard. 37
Beech street, northwest corner of Kempton. Post. 18
Beetle street, south side, 95.5 feet east of Acushnet avenue. Post. 57
Blackmer street, south side, east of Front 575 feet. Post. 63
Bolton road, west side, south of Rivet 1027 feet. Post. 59
Bolton road, northwest corner Poplar road. Post. 59
Bonney street, northwest corner of Grinnell. 51
Bonney street, northwest corner of Rockland. Post. 54
Bonney street, west side, 259 feet north of Rivet. Post. 61
Borden street, southwest corner of Bay. Post. 42
Bowditch street, southwest corner of Weld. Post. 56
Bowditch street, west side, 313 feet south of Cedar Grove. Post. . 55
Bowditch street, west side, north of Cedar Grove 244 feet. Post. . 55
Bridge avenue, north side, 44 feet west of draw. 62
Bridge avenue, south side, 11 feet west of draw. 62
Brownell street, west side, 294 feet south of Union. Post. 22
Bullock street, southwest corner of Trinity. Post. 14
Campbell street, south side, east of County 163 feet. 28
Campbell street, south side, 216.5 feet west of County. Post. . . . 25
Campbell street, southwest corner of Cottage. Post. 19
Campbell street, south side, east of Emerson 205 feet. 18
Cannon street, south side, east of Second 164 feet. Post. 63
Cedar street, northwest corner of Elm. Double. 25
Cedar street, southwest corner of Kempton. 26
Cedar street, west side, north of Mill 75 feet. 23
Cedar street, southwest corner of Hillman. 23
Cedar street, northwest corner of Sycamore. 21
Cedar street, southwest corner of Campbell. 18
Cedar street, southwest corner of Parker. 19
Cedar Grove street, southeast corner of Front. Post. 60
Cedar Grove street, southeast corner of Howard. Post. 58
Cedar Grove street, south side, 383 feet west of Bowditch. Post. . 57
Cedar Grove street, northwest corner of Purchase. Post. 56
Cedar Grove street, southwest corner of County. Post. 43
Cedar Grove street, south side, 183.5 feet west of County. Post. . 40
Centre street, south side, east of Water 85 feet. 56
Chancery street, west side, north of Arnold 406 feet. Post. . . . 33
Chancery street, southwest corner of Elm. Post. 28

Chancery street, west side, south of Parker 176 feet. Post. 24
Chancery street, west side, 263 feet north of Parker. Post. 16
Cherry street, southeast corner of Seventh. 38
Chestnut street, southwest corner of North. 19
Chestnut street, west side, north of Campbell 96 feet. 22
Clark street, southwest corner of State. 47
Clark street, south side, 170 feet west of County. Post. 40
Clinton street, south side, east of Orchard 125 feet. 26
Clinton street, south side, west of Ash 242½ feet. Post. 44
Coffin avenue, southwest corner North Purchase. Post. 40
Coffin avenue, south side, opposite Oneko lane. Post. 40
Coffin avenue, southeast corner of Bowditch. Post. 40
Coffin avenue, southeast corner of Front. Post. 50
Coffin street, north side, 262 feet east of Water. Post. 62
Coggeshall street, south side, 227.4 feet east of Mitchell. Post. . . 64
Coggeshall street, southeast corner of Rock. Post. 62
Coggeshall street, southwest corner of Front. Post. 61
Coggeshall street, southwest corner of Purchase. Post. 53
Coggeshall street, southeast corner of County. Post. 43
Collins street, south side, 72.4 feet west of Glover. Post. 12
Columbia street, south side, 68 feet west of Clay. Post. 46
Commercial street, north side, east of Front 82 feet. Post. 62
Cottage road, south side, 435 feet west of Bolton road. Post. . . . 55
Cottage street, southwest corner of Bay. Post. 43
Cottage street, northwest corner of Allen. 42
Cottage street, northwest corner of Bedford. 37
Cottage street, northwest corner of Hawthorn. 31
Cottage street, southwest corner of Arnold. 23
Cottage street, southwest corner of Union. 22
Cottage street, southwest corner of Kempton. Post. 22
Cottage street, northwest corner of Hillman. 20
Cottage street, northwest corner of Sycamore. 20
Cottage street, west side, 237 feet north of Locust. Post. 20
County street, west side, 200 feet north of Coggeshall. Post. . . . 44
County street, southeast corner of Penniman. Post. 44
County street, west side, 234½ feet south of Clark. Post. 43
County street, west side, 115 feet south of Weld. Post. 42
County street, southwest corner of Austin. Post. 33

County street, northwest corner of Locust. Post. 24
County street, northwest corner of Parker. 23
County street, southwest corner of Smith. Post. 30
County street, southwest corner of Maxfield. 25
County street, southwest corner of North. 21
County street, southwest corner of Middle. Double. 22
County street, southwest corner of Morgan. Post. 22
County street, northwest corner of Union. 24
County street, west side, head of School. 27
County street, northwest corner of Madison. 32
County street, southwest corner of Hawthorn. 36
County street, northwest corner of Allen. 49
County street, southwest corner of Grinnell. Post. 61
County street, northwest corner of South. Post. 62
County street, northwest corner of Windsor. Post. 57
County street, west side, 71 feet north of Division. Post. 54
County street, northwest corner of Cove road. Post. 62
Court street, southwest corner of Orchard. 22
Court street, south side, opposite Cedar. 23
Court street, northeast corner of Ash. Post. 20
Court street, south side, opposite Emerson. 26
Court street, south side, west from Park 304 feet. 32
Court street, south side, head of Jenney. Post. 23
Court street, south side, east of Reed 300 feet. Post. 22
Cove street, south side, east of Water 487 feet. 62
Cove street, south side, west of Water 334½ feet. Post. 60
Cove street, southeast corner of County. Post. 72
Crapo street, west side, south of Washington 343 feet. 60
Crapo street, west side, south of Rockland 225 feet. 63
Crapo street, west side, 160 feet south of Thompson. Post. . . . 58
Dartmouth street, east side, southwest of Orchard 110 feet. 47
Dartmouth street, east side, 125 feet south of Hickory. Post. . . 47
Dartmouth street, east side, 260 feet south of Rockland. Post. . . 45
Dartmouth street, east side, 99 feet south of Thompson. Post. . . 44
Dartmouth street, southeast corner of Larch. Post. 42
Dean street, southwest corner of Rock. Post. 62
Dean street, southeast corner of Front. Post. 50
Delano street, southwest corner of Water. Post. 57

Delano street, southeast corner of Acushnet avenue. Post. 57
Division street, southeast corner of Second. Post. 61
Division street, south side, 527 feet west of County. Post. 62
Division street, south side, east of Crapo 6 feet. Post. 58
Durfee street, southwest corner of Cedar. Post. 15
Durfee street, southwest corner of Bullock. Post. 17
Durfee street, southwest corner of Shawmut avenue. Post. 12
Elm street, southwest corner of Pleasant. 38
Elm street, southwest corner of Summer. 18
Elm street, south side, 43.5 feet west of Florence. Post. 26
Elm street, southeast corner of Palmer. Post. 14
Emerson street, west side, 173.8 feet north of Arnold. Post. 29
Emerson street, southwest corner of Willis. 19
Emerson street, southwest corner of Parker. 18
Fifth street, southwest corner of School. Post. 45
Fifth street, west side, south of Madison 245 feet. 50
Fifth street, northwest corner of Wing. Post. 59
Fifth street, northwest corner of Grinnell. 61
First street, southwest corner of Spring. 58
First street, west side, south of School 109 feet. 57
First street, west side, south of Howland 185 feet. 65
First street, west side, south of South 255 feet. 63
Florence street, west side, north of North 180 feet. Post. 26
Florence street, northwest corner of Mill. Post. 24
Florence street, west side, 199.6 feet south of Kempton. Post. . . . 27
Florence street, southwest corner of Morgan. Post. 29
Forest street, south side, west of County 90 feet. 53
Foster street, southwest corner of Maxfield. 37
Foster street, northwest corner of High. 33
Fourth street, west side, north of School 106 feet. 46
Fourth street, west side, south of Madison 210 feet. 54
Fourth street, east side, opposite Washington. Post. 57
Fourth street, northwest corner of Rockland. 62
Fourth street, west side, south of Potomska 61 feet. Post. 58
Franklin street, southwest corner of Pleasant. 43
Franklin street, southwest corner of State. Post. 38
French avenue, west side, south of Cove road 14 feet. 60
Front street, west side, south of Washburn 319 feet. 62

Front street, west side, south of Logan 383 feet. Post. 63
Front street, southeast corner of Wamsutta. Post. 65
Front street, southwest corner of Hazard's lane. 61
Front street, southwest corner of Centre. 61
Front street, west side, south of Commercial 86 feet. 63
Front street, northwest corner of lane head of Merrill's wharf. . . 65
Front street, west side, south of Howland 268 feet. Post. 61
Front street, southwest corner of Grinnell. Post. 62
Front street, west side, south of South 330 feet. Post. 62
Front street, west side, north of Delano 191 feet. Post. 62
Fruit street, south side, east of Hemlock 126.5 feet. Post. 53
Fruit street, south side, 25.5 feet west of Mulberry. Post. 46
Gifford street, south side, 700 feet east of Water. Post. 66
Gifford street, south side, 274 feet east of Water. Post. 65
Grape street, south side, west of Lewis 131 feet. Post. 36
Grape street, south side, west of Lewis 517½ feet. Post. 34
Griffin street, southwest corner of Second. 62
Grinnell street, south side, west of Acushnet avenue 76 feet. . . . 60
Grinnell street, south side, east of Crapo 103 feet. 58
Grinnell street, southwest corner of Orchard. Post. 50
Grove street, southwest corner of Anthony. 32
Harmony street, southwest corner of Social. Post. 59
Harrison street, southwest corner of Hickory. Post. 48
Hawthorn street, southeast corner of Page. 28
Hawthorn street, south side, east of Tremont 147 feet. Post. . . . 28
Hawthorn street, southwest corner of Brigham. Post. 26
Hawthorn street, south side, 301 feet west of Brigham. Post. . . 24
Hazard street, south side, west of State 140 feet. 36
Hazard street, southwest corner of Pleasant. 46
Hicks street, south side, east of Acushnet avenue 276 feet. Post. . 56
High street, south side, east of Acushnet avenue 43 feet. 48
High street, south side, east of County 177 feet. 23
Hillman street, southwest corner of Second. 57
Hillman street, southeast corner of Hill. 32
Hillman street, southwest corner of Chancery. Post. 29
Howland street, northeast corner of Second. 63
Howland street, south side, 19.2 feet west of Prospect. Post. . . 60
Independence street, south side, 153.7 feet west of County. Post. 57

Irving court, north end of court. 25
James street, west side, 215.6 feet north of Arnold. Post. 24
Katharine street, south side, 66.7 feet east of Crapo. Post. 62
Kempton street, southwest corner of Pleasant. Post. 36
Kempton street, south side, opposite Hill. 28
Kempton street, southwest corner of Summer. 19
Kempton street, southwest corner of Emerson. 26
Kempton street, southwest corner of Park. 28
Kempton street, southwest corner of Liberty. 29
Kempton street, southeast corner of Jenney. 26
Kempton street, south side, west of Hunter 50 feet. Post 21
Kempton street, southwest corner of Francis. Post. 14
Kilburn street, north side, east of Front 244 feet. Post. 62
Kilburn street, north side, east of Front 581 feet. Post. 64
Larch street, south side, 120 feet east of Mulberry. Post. . . . 45
Larch street, south side, 129 feet east of Hemlock. Post. 51
Liberty street, west side, south of Kempton 339 feet. 30
Lincoln street, west side, south of Union 171 feet. 23
Linden street, south side, west of State 13½ feet. Post. 43
Linden street, south side, west of County 169 feet. Post. 34
Linden street, south side, 67½ feet west of Reynolds. Post. 24
Linden street, south side, 6½ feet east of Ashland. Post. 14
Lindsey street, west side, 173 feet south of Kempton. Post. . . . 27
Lindsey street, northwest corner of Morgan. Post. 24
Locust street, southwest corner of Chestnut. Post. 23
Locust street, southeast corner of Richmond. Post. 15
Logan street, southwest corner of North Front. 65
Logan street, south side, east of Acushnet avenue 400 feet. 62
Logan street, southwest corner of Acushnet avenue. 63
Lombard street, west side, 209½ feet south of Rockland. Post. . . 50
Madison street, southwest corner of First. 61
Madison street, southwest corner of Sixth. Post. 41
Maitland street, south side, west of Cedar 305 feet. Post. 14
Maxfield street, southwest corner of Second. Post. 58
Maxfield street, southwest corner of Pleasant. Post. 38
Maxfield street, southeast corner of Chestnut. 19
Maxfield street, southeast corner of Spruce. 21
Maxfield street, southwest corner of Ash. Post. 22

McGurk street, west side, 215.6 feet north of Middle Point road. Post. 55
Mechanics lane, north side, east of Eighth 206 feet. 30
Merrimac street, southwest corner of State. Post. 41
Middle street, southeast corner of Second. 54
Middle street, southeast corner of Sixth. Double. 36
Middle street, south side, east of Cedar 371 feet. 32
Middle street, southeast corner of Chancery. 29
Mill street, south side, west of Hill 191 feet. 25
Mill street, south side, west of Ash 45 feet. 25
Mill street, south side, 138 feet west of Hunter. Post. 18
Mill street, south side, 97.9 feet west of Beech. Post. 14
Mitchell street, west side, 178.8 feet north of Coggeshall. Post. . 63
Morgan street, southwest corner of Cottage. 33
Mosher street, south side, west of County 517 feet. Post. 59
Mt. Pleasant street, southeast corner of Distributing Reservoir. . . 4
Mt. Pleasant street, west side, north of Durfee 572 feet. 8
Mt. Pleasant street, northwest corner of Durfee. Post. 12
Mt. Vernon street, south side, 359 feet west of Mt. Pleasant. . . . 6
Myrtle street, west side, 294.5 feet north of Weld. Post. 20
Nelson street, south side, 541.6 feet west of County. Post. 60
Newton street, northwest corner of Elm. Post. 29
North street, southeast corner of Second. Post. 54
North street, southeast corner of Acushnet avenue. 50
North street, northwest corner of Pleasant. Post. 35
North street, southwest corner of Foster. 35
North street, southwest corner of Park. Post. 29
North street, southeast corner of Newton. Post. 32
North street, southwest corner of Hunter. Post. 22
Oak street, southwest corner of Harrison. Post. 45
Oak street, west side, 176.9 feet north of Grape. Post. 39
Ocean street, west side, 184½ feet south of Arnold. Post. 32
Old Point road, west side, east of French avenue 650 feet. 53
Orchard street, west side, head of Madison. 27
Page street, west side, 429½ feet south of Hawthorn. Post. 36
Palmer street, west side, 113 feet south of Court. Post. 19
Park place, south side, west of Sixth 306 feet. 32
Park street, west side, 27.1 feet south of Maxfield. Post. 24

Park street, southwest corner of Hillman. Post. 25
Park street, west side, south of Kempton 339 feet. Post. 27
Park street, northwest corner of Court. Post. 28
Park street, west side, north of Arnold 263 feet. Post. 34
Park street, south side Oak Grove Cemetery. Post. 25
Parker street, southwest corner of Summer. 27
Pearl street, southwest corner of Pleasant. Post. 41
Pine street, northwest corner of Cross. 65
Pleasant street, southwest corner of Market. 37
Pleasant street, west side, north of William 21½ feet. Post. 40
Pleasant street, east side, foot of Sycamore. Post. 39
Pleasant street, northwest corner of Pope. 42
Pleasant street, northwest corner of Austin. 47
Pleasant street, southwest corner of Linden. 48
Pleasant street, southwest corner of Weld. Post. 48
Pope street, south side, opposite North Oak. 32
Pope street, south side, 226 feet east of Chestnut. Post. 21
Poplar road, south side, 431 feet west of Bolton road. Post. . . . 52
Potomska street, A group of three post hydrants located about 300 feet east of Prospect and 91 feet north of south line of Potomska street, ... 64
Prospect street, west side, 275.2 feet north of Grinnell. Post. . . 61
Prospect street, northwest corner of Grinnell. Post. 63
Prospect street, west side, north of Potomska 324½ feet. Post. . . 62
Prospect street, northwest corner of Potomska. Post. 63
Purchase street, northwest corner of Deane. Post. 43
Purchase street, west side, opposite Oneko Mill. Post. 48
Purchase street, east side, opposite Clark. Post. 58
Purchase street, west side, opposite Logan. 58
Purchase street, northwest corner of Merrimac. Double. 51
Purchase street, northwest corner of Pope. 52
Purchase street, southwest corner of Pearl. Double. 52
Purchase street, southwest corner of Campbell. 47
Purchase street, west side, north of Maxfield 343 feet. Double. . . 46
Purchase street, southwest corner of Hillman. Double. 43
Purchase street, southwest corner of Mill. 42
Purchase street, northwest corner of Middle. 40
Purchase street, west side, at Central engine-house. Post. 40

Purchase street, northwest corner of Union. 43
Reed street, west side, 25 feet north of Elm. Post. 15
Reed street, west side, 207.8 feet south of Kempton. Post. 18
Reynolds street, southwest corner of Weld. Post. 26
Reynolds street, west side, 17.9 feet south of Clark. Post. 29
Rivet street, southwest corner of Second. 62
Rivet street, southwest corner of County. Post. 59
Rivet street, southwest corner of Bonney. Post. 59
Rivet street, southwest corner of Hemlock. Post. 51
Rivet street, southeast corner of Bolton road. Post. 56
Robeson street, southwest corner of County. Post. 26
Robeson street, southwest corner of Ashland. Post. 15
Robeson street, south side, 382 feet west of Ashland. Post. . . . 20
Robeson street, southeast corner of Cedar. Post. 21
Robeson street, south side, 351 feet west of Cedar. Post. 17
Rock street, southwest corner of Washburn. Post. 61
Rock street, west side, 134 feet north of Coggeshall. Post. 62
Rock street, northwest corner Beetle. Post. 60
Rockland street, southwest corner of County. Post. 58
Rockland street, southeast corner of Hall. Post. 56
Rockland street, south side, 13 feet west of Orchard. Post. . . . 54
Rockland street, southwest corner of Lombard. Post. 50
Rounds, street, northwest corner of Elm. Post. 22
Russell street, south side, east of Fifth 92 feet. 54
Russell street, southwest corner of Sixth. Post. 47
Russell street, south side, 179 feet west of Sixth. Post. 42
Sawyer street, southwest corner of Bowditch. Post. 53
Sawyer street, southwest corner of Acushnet avenue. Post. . . . 59
Sawyer street, southeast corner of Rock. Post. 65
Sawyer street, south side, 418.8 feet east of Mitchell. Post. . . . 64
School street, southwest corner of Sixth. Post. 37
Second street, northwest corner of Mill. 55
Second street, west side, south of Elm 52 feet. Post. 52
Second street, west side, south of Spring 74 feet. 55
Second street, northwest corner of Coffin. 61
Second street, west side, at head of Morgan's lane. Post. 60
Second street, west side, north of Grinnell 61 feet. 63
Second street, west side, north of Potomska 232 feet. Post. . . . 61

Second street, west side, south of Potomska 122 feet. Post. . . . 63
Second street, west side, 188 feet south of Blackmer. Post. . . . 59
Seventh street, southwest corner of Union. Post. 31
Seventh street, west side, north of Madison 50 feet. 36
Shawmut avenue, west side, head of Locust. Post. 17
Shawmut avenue, west side, 38.7 feet north of Locust. Post. . . . 11
Shawmut avenue, west side, north of Austin. Post. 13
Sherman street, south side, west of County 314 feet. 51
Sisson street, northwest corner of Union. Post. 25
Sixth street, west side, north of Grinnell 194 feet. Post. 60
Smith street, southwest corner of Chestnut. Double. 22
Smith street, southeast corner of Spruce. Double. 20
Smith street, southeast corner of Emerson. 22
Smith street, south side, east of Park 5 feet. Post. 29
South street, southwest corner of Acushnet avenue. 62
South street, southwest corner of Second. 62
South street, southwest corner of Water. Post. 63
South street, southwest corner of Prospect. Post. 61
South Beach road, southwest corner of Bolton road. Post. 57
South Beach road, south side, 327 feet west of Bolton road. Post. 54
Spring street, southeast corner of Acushnet avenue. Post. 51
Spring street, southwest corner of Seventh. 32
Spring street, southeast corner of Fifth. 42
State street, northwest corner of Sycamore. 35
State street, southwest corner of Pearl. 34
Summer street, northwest corner of North. 16
Summer street, northwest corner of Hillman. 16
Summer street, southwest corner of Willis. 26
Sycamore street, southwest corner of Thomas. 30
Sycamore street, southwest corner of Summer. 24
Sycamore street, south side, west of Ash 68 feet. 22
Thomas street, northwest corner of Hillman. 24
Thompson street, south side, 20 feet east of Hall. Post. 58
Thompson street, southwest corner of County. Post. 59
Tremont street, southwest corner of Union. Post. 26
Tremont street, northwest corner of Maple. Post. 29
Trinity street, south side, 145 feet west of Cedar. Post. 19
Union street, southwest corner of Water. Double. 57

Union street, southeast corner of Second. 52
Union street, southwest corner of Acushnet avenue. Double. . . 48
Union street, southwest corner of Sixth. Post. 38
Union street, southeast corner of Emerson. Post. 28
Union street, south side, 344 feet west of Park. Post. 28
Walden street, southwest corner of Maxfield. 31
Wall street, south side, east of Acushnet avenue 165 feet. 62
Walnut street, northwest corner of Front. Post. 61
Walnut street, southwest corner of Second. 57
Walnut street, southeast corner of Fourth. Double. 51
Walnut street, southwest corner of Seventh. Post. 38
Wamsutta street, south side, west of Front 200 feet. Post. 65
Wamsutta street, south side, west of Front 372 feet. Post. 65
Wamsutta street, south side, east of Acushnet ave. 285 ft. Double. 64
Ward street, west side, 62 feet south of Bay. Post. 46
Washburn street, southeast corner of Acushnet avenue. 59
Washburn street, south side, west of North Front 228 feet. . . . 59
Washington street, southeast corner of Crapo. 58
Washington street, south side, west of Orchard 102 feet. 50
Washington street, southeast corner of Dartmouth. 46
Water street, southwest corner of Hillman. 65
Water street, southwest corner of North. Post. 64
Water street, west side, south of North 258 feet. 63
Water street, northwest corner of Middle. Double. 62
Water street, southwest corner of Elm. 60
Water street, west side, north of Centre 46 feet. 50
Water street, west side, north of School 22 feet. 60
Water street, northwest corner of Walnut. 61
Water street, northeast corner of City wharf. 62
Water street, northwest corner of Coffin. 64
Water street, west side, head of Pine. Post. 67
Water street, west side, head of Leonard. Post. 62
Water street, southwest corner of Howland. Post. 60
Water street, northwest corner of Grinnell. Post. 60
Water street, northwest corner of Potomska. Post. 63
Water street, west side, 266 feet south of Potomska. Post. . . . 63
Water street, northwest corner of Rivet. Post. 63
Water street, southwest corner of Blackmer. Post. 63

Water street, northwest corner of Delano. Post. 62
Water street, west side, head of Gifford. Post. 62
Water street, northwest corner of Cove. Post. 62
Weld street, southwest corner of State. Post. 43
William street, southwest corner of Bethel. 51
William street, southeast corner of Acushnet avenue. 47
William street, southwest corner of Sixth. Post. 38
William street, southwest corner of Eighth. 26
Willis street, southeast corner of Pleasant. Post. 41
Willis street, southwest corner of State. 32
Willis street, southwest corner of County. Post. 26
Willis street, southwest corner of Cottage. Post. 19
Willis street, south side, west of Cedar 200 feet. 18
Willow street, south side, 305.1 feet east of Cedar. Post. 16
Wing street, southwest corner of Fourth. 57
Wing street, southwest corner of Sixth. Post. 57
Winsor street, south side, west of County 455½ feet. Post. 58
Winsor street, south side, 77½ feet east of Crapo. Post. 60

Number of flush hydrants, ... 200
Number of post hydrants, ... 299

Total number of hydrants, ... 499

SUMMARY OF STATISTICS.

REPORT OF 1891.

IN ACCORDANCE WITH SUGGESTIONS ADOPTED BY THE

New England Water Works Association.

New Bedford Water Works, Bristol County, Mass.

Population by census of 1890,

40,705

Date of construction,

1866 to 1869, inclusive.

By whom owned,

The property of the city of New Bedford.

Source of supply,

From a storing reservoir artificially formed by constructing a dam across the valley of the Acushnet river, seven miles north of the centre of the city.

Mode of supply,

By gravitation into the city, thence pumped into a distributing reservoir on an elevated site.

PUMPING.

1. Builders of pumping machinery,
   - *a*. McAlpine engine, built by Quintard Iron Works.
   - *b*. Worthington engine, built by Henry R. Worthington.
   - *c*. High duty Worthington engine, built by Henry R. Worthington.

2. Description of coal,

First Contract.

a. Anthracite.
b. Not applicable.
c. Size, egg.
d. Brand, Philadelphia & Reading free white ash.
e. Price per gross ton delivered, $4.50.
f. Percentage of ash, $13\frac{2}{10}$.
g. Wood, price per cord, $4.00.

Second Contract.

a. Anthracite.
b. Not applicable.
c. Size, egg.
d. Brand, Upper Lehigh.
e. Price per gross ton delivered, $5.15.
f. Percentage of ash, 13.
g. Wood, price per cord, $4.00.

	McAlpine.	Worthington.	High Duty. Worthington.
3. Coal consumed for the year, in pounds,	1,271,900	191,000	918,364
4. $\frac{\text{Lbs. of wood consumed in pounds}}{3}$ = coal,	650	67	333
5. Total fuel consumed for the year, (3) + (4),	1,272,550	191,067	918,364
6. Total pumpage for the year in gallons,	774,010,775	91,483,092	659,290,958
7. Av. static head against which pumps work,	125.6	124.7	125.3
8. Av. dynamic head against which pumps work,	134.9	126.0	127.6

9. *a.* Number of gallons pumped per pound of coal (3),

609 479 718

b. Number of gallons raised 100 feet per pound of coal for total coal (3),

821 603 916

10. Duty, in foot lbs. per 100 pounds of coal, using following formula, making no deductions for starting, banking fires, heating building, or anything else,

$$\text{Duty} = \frac{\text{Gallons pumped (6)} \times 834 \text{ (lbs.)} \times 100 \times \text{dynamic head (8)}}{\text{Total fuel consumed (5)}}$$

68,410,278 50,298,363 76,375,766

Cost of Pumping Figured on Pumping Station Expenses, viz.: $10,657.59.

11. Per million gallons raised against average dynamic head (8) into reservoir,

$6.99

12. Per million gallons raised one foot high (dynamic),

5.33 cents.

Cost of Pumping Figured on Total Maintenance (see Financial CC.), viz.: $94,824.48.

13. Per million gallons raised against average dynamic head (8) into reservoir,

$62.19

14. Per million gallons raised one foot high (dynamic),

47.43 cents.

FINANCIAL.

MAINTENANCE.

RECEIPTS.		EXPENDITURES.	
From consumers:			
A. Water rates, domestic,	$57,536.13	AA. Management and repairs,	$53,824.48
B. Water rates, manufacturing,	8,853.79	BB. Interest on bonds,	41,000.00
C. Net receipts from water,	$66.389.92	CC. Total maintenance for year,	$94,824.48
D. Miscellaneous (sales, etc.),	368.75	Bonds paid,	30,000.00
E. Total,	$66,758.67	DD. Balance to construction,	24,934.19
From public funds:			
J. General appropriation, water,	12,000.00		
General appropriation, debt,	71,000.00		
K. Gross receipts from all sources,	$149,758.67	KK. Total,	$149,758.67

CONSTRUCTION.

RECEIPTS.			EXPENDITURES.		
R.	Balance from previous year, $44,125.53		FF. Extension, mains,		$21,223.28
	Balance from maintenance, 24,934.19	$69,059.72	GG. Extension, services,		
S.	Bonds issued,	00.00	*a.* Services,	$6,370.75	
U.	Other sources (service private lines, meters, etc.).	11,881.29	*b.* Fountains, meters,	2,303.99	8,674.74
			HH. Special extensions,		3,913.66
			II. Total construction for year,		33,811.68
			JJ. Balance,		47,129.33
V.	Total,	$80,941.01	KK. Total,		$80,941.01

W.	Net cost of works to this date,	$1,472,370.17
X.	Bonded debt at this date $590,000, trust fund $100,000 =	690,000.00
Y.	Sinking fund,	2,645.50
Z.	Average rate of interest,	$5\frac{67}{100}$ per cent.

CONSUMPTION.

1. Estimated total population at date,
   45,000
2. Estimated population on lines of pipe at date,
   40,000
3. Estimated population supplied at date,
   38,500
4. Total number gallons consumed for year,
   1,513,161,482
5. Passed through domestic meters,
   9,914,205 gallons, or $0\frac{65}{100}$ per cent.
6. Passed through manufacturing meters,
   327,846,754 gallons, or 22 per cent.
7. Average daily consumption, in gallons,
   4,145,648
8. Gallons per day to each inhabitant (1),
   92
9. Gallons per day to each customer (3),
   108
10. Gallons per day to each tap (distribution 22),
    615

DISTRIBUTION.

MAINS.

1. Kind of pipe used,
   Wrought-iron cement-lined, and cast-iron.
2. Size,
   From 4 to 30 inches.
3. Extended,
   16.018 feet.
4. Discontinued,
   3,657 feet.
5. Total now in use,
   $64\frac{8824}{10000}$ miles.
6. Cost of repairs per mile,
   $22.47
7. Number of leaks for the year,
   10

8. Small distribution pipe, less than 4 inches, total length,

5,944 feet.

9. *a*. Fire hydrants, added,

23

b. Watering-cart connections added,

3

10. *a*. Number of fire hydrants now in use,

499

b. Number watering-cart hydrants now in use,

40

11. Stop-gates added,

32

12. Number now in use,

701

13. Small stop-gates, less than 4 inches, total,

62

14. Number of blow-off gates,

70

15. Range of pressure at centre for day and night,

30 to 36 lbs.

SERVICES.

16. Kind of pipe used,

Lead and cast-iron.

17. Size,

From ½ to 8 inches.

18. Extended,

11,525 feet.

19. Discontinued,

265 feet.

20. Total now in use,

$41\frac{34}{100}$ miles.

21. Service taps added,

348

22. Number now in use,

6,742

23. Average length of service laid during past year,

33 feet.

24. Average cost of service, $18.10

25. Meters added, 12

26. Number now in use,

a. Domestic, 83
b. Manufacturing, 52

27. Motors and elevators added, 3

28. Number now in use, 33

In Board of Aldermen,
February 11th, 1892.

Received, ordered printed in the City Documents, and sent down for concurrence.

D. B. LEONARD,
City Clerk.

In Common Council,
February 11, 1892.

Concurred.

WM. A. MACKIE,
Clerk.

1892—CITY DOCUMENT No. 4.

FORTIETH ANNUAL REPORT

OF THE

TRUSTEES

OF THE

FREE PUBLIC LIBRARY

OF THE

CITY OF NEW BEDFORD,

MASS.

NEW BEDFORD:
E. ANTHONY & SONS, Incorp., PRINTERS.
1892.

Officers of the Free Public Library

FOR THE YEAR 1892.

TRUSTEES.

Ex-Officio. Terms expire January, 1893.

CHARLES S. ASHLEY, Mayor of the City.
WILLIAM G. KIRSCHBAUM, President of the Common Council.
WILLIAM H. SHERMAN, Chairman of the Committee of the City Council on Public Instruction.

Elected by the City Council.

LEONARD B. ELLIS,	Term expires April, 1892.
ARTHUR G. GRINNELL,	Term expires April, 1892.
GEORGE H. DUNBAR,	Term expires April, 1893.
GEORGE HOWLAND, JR.,	Term expires April, 1893.
ISAAC B. TOMPKINS, JR.,	Term expires April, 1894.
MATTHEW C. JULIEN,	Term expires April, 1894.

PRESIDENT OF THE BOARD.
THE MAYOR.

CLERK.
WILLIAM L. R. GIFFORD.

COMMITTEES.

On the Library—The Mayor, Messrs. Howland, Kirschbaum, and Julien.
On the Building—Messrs. Tompkins, Sherman, and Ellis.
On Binding and Blanks—Messrs. Dunbar and Grinnell.

SUPERINTENDENT OF THE LIBRARY.
GEORGE H. DUNBAR.

LIBRARIAN.
ROBERT C. INGRAHAM.

ASSISTANT LIBRARIAN.
WILLIAM L. R. GIFFORD.

ASSISTANTS.
JOSEPHINE A. MERRICK, M. E. BROWN,
SUSIE H. GAMMONS.

JANITOR.
YORICK W. AMES.

REPORT.

To the City Council of New Bedford.

GENTLEMEN:—The trustees of the Free Public Library take pleasure in reporting the general condition of the library as satisfactory. There has been a marked increase in the number of books distributed during the year, a larger attendance in the reading-room, and a wider and deeper interest manifested in the affairs of the library.

The experiment of opening the library for readers on Sunday afternoons has proved successful. Increased interest has been displayed in this measure, and it will undoubtedly be permanently continued.

The rapid increase in the number of volumes in the library and the corresponding demand for their use call for the adoption of such methods as shall meet the growing demands of the people. The time has fully come when the requests for a new subject catalogue should be heeded. The difficulties in the accomplishment of this are many, and they cannot be easily overcome. The problem could be quickly solved if there were ample room for the use of the library. But as long as it is confined to its present limited quarters, it will be impossible to put the library into a condition where it will compare favorably with others of its size and grade. Until our books are placed in a building specially adapted to the modern methods of library work, the library must of

necessity fall short of fulfilling its highest mission. This subject is one of importance to the community, and it should command prompt attention. The trustees hope that during the coming year considerable progress may be made in re-cataloguing the library, as this is a work which must be done under any circumstances.

In the appendix will be found the usual statistics of the library for 1891, and a list of those who have made gifts.

APPENDIX.

GENERAL STATISTICS FOR 1891.

Books and pamphlets purchased in 1891,	1,772
Volumes donated in 1891,	374
Pamphlets donated in 1891,	720
Newspapers now on file in the reading-room,	17
Volumes rebound and repaired,	684
" bound,	312
" worn out and rejected,	502
Notices sent for books overdue,	104
New cards issued,	1,113
Books taken from the library in 1891,	88,600
Increase in circulation over that of 1890,	9,694

The following table shows the attendance at the library on Sunday, during 1891. The largest attendance was 44, November 29; the smallest was 10, June 14; average attendance, 26. After June 28, the library was closed on Sundays until November 8.

Jan. 4.	30
11.	26
18.	28
25.	24
Feb. 1.	18
8.	30
15.	27
22.	26
Mar. 1.	32
8.	24
15.	23
22.	28
29.	30
Apr. 5.	25
12.	24
19.	21
26.	26

May 3.	25
10.	21
17.	20
24.	20
31.	22
June 7.	20
14.	10
21.	16
28.	16
Nov. 8.	39
15.	39
22.	37
29.	44
Dec. 6.	29
13.	26
20.	28
27.	38

Total attendance for 34 Sundays, 892. Average attendance, 26.

FINANCIAL STATEMENT CONCERNING THE FREE PUBLIC LIBRARY FOR 1891.

STATEMENT OF THE LIBRARIAN.

1891.			
Jan. 1.	Cash on hand,	$46.59	
	Paper stock,	2.83	
	Books lost and paid for,	1.50	
	Sale of catalogues,	3.50	
	Fines during 1891,	167.65	$222.07
	Paid for expressage, freight, and jobbing,	$35.10	
	P. O. box and postage,	42.60	
	Books and papers,	3.81	
	Binding and paper cutting,	19.11	
	Stationery,	19.27	
	Incidentals,	50.93	
1892, Jan. 1.	Balance in hands of librarian,	51.25	$222.07

FREE PUBLIC LIBRARY ACCOUNT.

1891.	Bills approved January,	$453.00	
	February,	462.75	
	March,	494.25	
	April,	467.90	
	May,	457.75	
	June,	496.33	
	July,	474.42	
	August,	468.21	
	September,	513.85	
	October,	482.63	
	November,	463.55	
	December,	485.80	$5,720.44
1891, Jan. 1.	Annual appropriation,	$5,700.00	
	Transfer,	20.44	$5,720.44

TRUST FUND ACCOUNT.

1891.			
Jan. 1.	Sylvia Ann Howland fund,	$4,470.35	
	George Howland, jr., fund,	134.53	
	Charles W. Morgan fund,	67.84	
	Oliver Crocker fund,	192.90	
	James B. Congdon fund,	380.37	
	George O. Crocker fund,	512.95	
	Dog fund,	630.90	$6,389.84

SYLVIA ANN HOWLAND FREE PUBLIC LIBRARY FUND.

1891.

Jan. 1.	Unexpended balance of income,	$4,470.35	
July 1.	Six months' interest,	1,500.00	
Dec. 31.	Six months' interest,	1,500.00	
	Amount returned,	3.00	$7,473.35

Bills approved for books, periodicals, and binding, viz.:

January audit,	$412.88	
February,	379.26	
March,	252.26	
April,	260.27	
May,	472.82	
June,	286.29	
July,	253.48	
August,	124.75	
September,	311.98	
October,	353.62	
November,	585.36	
December,	442.55	$4,135.52

The detailed statement of the expenditures from the income of this fund is as follows:

Academy of Natural Sciences,	$5.00
American Chemical Journal,	4.00
American Journal of Philology,	3.00
Appleton, D., & Co.,	23.40
Austin, J. O.,	5.00
Balch Bros.,	30.00
Bancroft-Whitney Co.,	24.00
Banks & Bros.,	12.00
Boston Public Library,	1.00
Boston Society of Natural History,	3.00
Bushell, W.,	2.55
Cadby, J. H. W.,	2.15
Cambridge Entomological Club,	5.00
Campbell, J. B.,	8.00
Chadbourne, S. H.,	5.25
Co-operative Newspaper Society, Limited,	1.10
Dedham Historical Register,	2.00
Dews, E.,	519.84
E. Anthony & Sons, Incorp.,	6.00
Edwards, J. F.,	2.00
Egypt Exploration Fund,	5.00

Electrical World,	$3.00
Ellis, G. H.,	2.00
Essex Institute,	4.50
Francis, D. G.,	2.89
Haferkorn, H. E.,	1.30
Harper, F. P.,	8.30
Hathaway, J. H., City Treasurer,	169.34
Hickcox, J. H.,	5.00
Holt, H., & Co.,	2.50
Houghton, Mifflin, & Co.,	32.00
Hutchinson, H. S., & Co.,	666.59
Inman, H. S.,	130.00
Joel Munsell's Sons,	5.00
Ladd, Warren,	3.00
Library Bureau,	19.40
Little, Brown, & Co.,	667.76
Littlefield, G. E.,	242.39
Luzerne Legal Register,	7.75
McDonough, J.,	16.50
Massachusetts Historical Society,	6.00
Mercury Publishing Co.,	6.00
Morell, T. H.,	4.00
Mount Holyoke Seminary,	2.25
Narragansett Historical Publishing Co.,	2.00
Nash, E. W.,	16.87
New Bedford Journal Publishing Co.,	5.00
New England Magazine Corp.,	10.50
Ohio Archaeological and Historical Society,	2.00
Peet, S. D.,	8.00
Phillips, G. R.,	3.00
Poor, H. V. & H. W.,	6.00
Porter, J. W.,	6.00
Publishers' Weekly,	3.50
Rider, S. S.,	9.32
Roffe, A. H., & Co.,	329.00
Salem Press Pub. and Printing Co.,	1.50
Schoenhof, C.,	229.82
Shea, J. G.,	5.00
Sherman, C. R., & Son,	1.00
Smith, J. S., & Co.,	2.00
Soldiers' and Sailors' Historical Society of R. I.,	8.90
Studies in History and Politics,	2.80
Taber, R. W.,	735.12
Taylor, T. J.,	4.75
Tilley, R. H.,	2.00

Tupper, F. A.,	$1.00	
Virginia Historical Society,	20.00	
Waldron, C. D.,	2.00	
Walker, G. H., & Co.,	15.00	
Williams, H.,	10.35	
Wilson, E. L.,	4.40	
Zahm, S. H., & Co.,	11.93	$4,135.52

GEORGE HOWLAND, JR., FUND.

1891.				
Jan. 1.	Unexpended balance of income,		$134.53	
	One year's interest,		96.00	
			$230.53	
	H. S. Inman,		50.00	$180.53

CHARLES W. MORGAN FUND.

1891.			
Jan. 1.	Unexpended balance of income,	$67.84	
	One year's interest,	60.00	
			$127.84

OLIVER CROCKER FUND.

1891.				
Jan. 1.	Unexpended balance of income,		$192.90	
	One year's interest,		60.00	
			$252.90	
	Academy of Nat. Sciences,	$30.00		
	American Polytechnic Co.,	25.00	55.00	$197.90

GEORGE O. CROCKER FUND.

1891.				
Jan. 1.	Unexpended balance of income,		$512.95	
	One year's interest,		400.00	
			$912.95	
	Samuel H. Cook,	$187.50		
	L. B. Ellis,	63.16		
	L. Grinnell & Co.,	187.50		
	A. M. Lumbard,	76.50		
	Pierce & Bushnell Mfg. Co.,	78.75	593.41	$319.54

JAMES B. CONGDON FUND.

1891.			
Jan. 1.	Unexpended balance of income,	$380.37	
	One year's interest,	30.00	$410.37

DOG FUND.

1891.				
Jan. 1.	Unexpended balance of income,		$630.90	
Feb.	Received from County Treasurer,		1,291.91	
			$1,922.81	
	A. Storrs & Bement Co.,	$6.80		
	Richard Ames,	6.25		
	Y. W. Ames,	608.00		
	Briggs & Lawrence,	25.75		
	E. Anthony & Sons, Incorp.,	16.25		
	L. M. Gammons,	92.00		
	D. J. Kane & Bro.,	4.50		
	D. J. McAuliffe,	60.00		
	Mercury Publishing Co.,	181.04		
	E. J. Merrick,	196.00		
	N. B. Journal Pub. Co.,	11.25		
	Pierce & Bushnell Mfg. Co.,	5.25		
	A. P. Pope,	10.30		
	J. T. C. Reed,	12.50		
	Robert A. Taber,	14.27		
	The Watchman,	7.00	1,257.16	$665.65

Total unexpended balance in the control of the Board of Trustees:

1892.			
Jan. 1.	Sylvia Ann Howland fund,	$3,337.83	
	George Howland, jr., fund,	180.53	
	Charles W. Morgan fund,	127.84	
	Oliver Crocker fund,	197.90	
	George O. Crocker fund,	319.54	
	James B. Congdon fund,	410.37	
	Dog fund,	665.65	$5,239.66

WILLIAM L. R. GIFFORD, Clerk.

GIFTS, 1891.

	Volumes.	Pamphlets.
Aged Brotherhood, Portland, Me.,		1
Allen, Walter S., City,		6
Almy, Frederic, Buffalo, N. Y.,		5
American Antiquarian Society,	1	1
American Bankers Association,		2
American Journal of Photography,	1	
American Philosophical Society,	3	
American Unitarian Association,	3	
Amherst College,		1
Apprentices Library Co., Philadelphia, Pa.,		1
Apprentices Library, New York City,		1
Astor Library, New York City,		1
Baker, Walter, & Co., Dorchester, Mass.,	1	
Bancroft-Whitney Co., San Francisco,		1
Barney, E. L., City,	1	
Batchelder, John M., Cambridge, Mass.,	Chart.	1
Bell St. Chapel, Providence, R. I.,	1	
Bixby, *Dr.* Geo. H., City,		1
Boston Dental College,		1
Boutell, Lewis H., Chicago, Ill.,	1	
Bristol County Agric'l Society,		1
Brookline Public Library,		1
Brooklyn Library,		2
Brownell, T. Frank, New York City,		1
Buckminster, Jos.,	5	
Buffalo Library, Buffalo, N. Y.,		1
Butler Hospital for the Insane, Providence, R. I.,		1
Carter, Jas. C., 66 Wall st., New York City,		1
Chicago Public Library,		15
Choate, John C., Essex, Mass.,		1
Christian Science Journal, Publishers of,	1	
Cincinnati Public Library,		4
City of Boston,	1	
City of New Bedford,	107	98
Civil Service Reform Asso., 56 Wall st., N. Y.,		82
Clarke Institute for Deaf Mutes, Northampton,		1

Clay, *Capt.* Henry,	1	
Clifford, Walter,	1	
Cobden Club,		1
Commissioners of the State Reservation at Niagara, 214 Broadway, N. Y.,		1
Commonwealth of Massachusetts,	12	4
Connecticut Hist. Society, Hartford, Conn.,		1
Cook, Thos., & Son, 261 Broadway, N. Y.,	1	
Cooper Union, New York City,		1
Cornell University, Ithaca, N. Y.,		1
Crapo, Wm. W.,	18	1
Cutter, Abram E., 41 Monument sq., Boston,		1
Dedham Historical Society,	1	2
Denver Public Library, Denver, Col.,	1	8
Dexter, *Prof.* F. B., New Haven, Conn.,		8
Dunbar, Geo. H.,		4
Egypt Exploration Fund,		1
Fall River Public Library,		1
Farrington, Wm. H., New York City,	4	7
Fearing, A. C., 13 Doane st., Boston,	1	
Fitz Public Library, Chelsea, Mass.,		2
Fletcher Free Library, Burlington, Vt.,		1
Friends Book Store, 304 Arch st., Philadelphia, Pa.,		1
Friends Free Library, Germantown, Phila.,		1
General Soc. of Mechanics and Tradesmen, 18 East 16th st., New York City,		1
Graves, *Rev.* Henry C., City,	1	
Green, *Dr.* S. A., Boston,	23	199
Green, Samuel S., Worcester, Mass.,		1
Gregory, H. E., 214 Broadway, N. Y.,		1
Griffis, Wm. E., Boston, Mass.,		1
Handsworth Pub. Library, Handsworth, Staffordshire, Eng.,		1
Hartford Library Assoc.,		3
Hartford Theological Seminary,		7
Hatcher, Edmund N., Columbus, Ohio,		Paper.
Harvard University, Cambridge, Mass.,	1	8
Hawes, A. Clifford,		1
Hayward, *Rev.* Wm. W., Medfield, Mass.,		1
Hill, Nath'l P., Colorado Springs, Col.,	1	
Hoar, Geo. F., Washington, D. C.,		1
Hopedale Public Library,		1
Howard Association, 5 Bishopsgate Without, London, E. C.,	1	
Howe, Wm. W., 157 E. 37th st., New York City,	1	

Howland, Geo., jr.,	14	
Huling, Ray Greene,		1
Ivison, Blakeman, & Co., 753 Broadway, New York City,	1	
Jenney, Chas. F., Hyde Park, Mass.,		3
Jersey City Free Pub. Library,	1	4
Johns Hopkins University,		1
Julien, *Rev.* M. C.,		1
Lawrence Public Library,		5
Lenox Library, New York City,		1
Leué, Adolph, Sec'y Ohio State Forestry Bureau, Cincinnati, Ohio,	1	
Library Co. of Philadelphia,		2
Los Angeles Public Library,		1
Lund, J. W., 25 Hollis, Cambridge, Mass.,		1
Lynn Public Library,		2
Maimonides Library, New York City,		2
Manchester Public Library, Manchester, Mass.,		2
Mass. Civil Service Comm'rs, 5 Pemberton square, Boston,		1
Mass. Soc. for Prevention of Cruelty to Children, 1 Pemberton sq., Boston,		1
Mass. State Board of Health,	2	
Mass. Universalist Convention, Rev. W. A. Start, Sec'y, Cambridge, Mass.,		1
Mercantile Library Assoc., San Francisco, Cal.,		1
Merrill, Geo. B., San Francisco, Cal.,		1
Minneapolis Pub. Library,	3	3
Montt, Pedro, Washington, D. C.,		1
Monroe, F. S.,	1	
Moulton, L. F., Colusa, Cal.,	1	
Mt. Holyoke Seminary, So. Hadley, Mass.,		1
New Bedford Christian Science Bible School,	1	2
New Bedford Water Board,		1
Newark Free Pub. Library,		1
Newberry Library, Chicago, Illinois,		1
New Jersey State Library, Trenton, N. J.,	2	
Newton Free Library, Newton, Mass.,		1
Nourse, Henry S.,		1
Ohio Meteorological Bureau, C. M. Strong, Sec'y, Columbus, O.,		2
Peabody Institute, Baltimore, Md.,		1
Peabody Institute, Peabody, Mass.,		1
Pell, Howland, 4 Warren st., New York City,	1	
Pennsylvania R. R., Passenger depot, Phila.,		1

Perkins Inst. for the Blind, Boston, Mass.,		1
Portland Board of Trade, Portland, Oregon,		1
Portland Public Library,	2	2
Pratt Institute, Brooklyn, N. Y.,		2
Providence Public Library,		1
Randall, Chas. S.,	9	
Rayner, Robert, Salem, Mass.,		1
Redwood Library, Newport, R. I.,		1
Reuben Hoar Library, Littleton, Mass.,		1
Rice, Wm., Springfield, Mass.,		1
Richard A. Peirce Post 196, G. A. R.,		1
Rosse, *Dr.* Irving C., Georgetown. D. C.,		2
Royal Society of Canada,	1	
Rusk, J. M., Washington, D. C.,	1	1
Russo-Jewish Committee,		1
St. Louis Mercantile Lib. Association,		1
St. Louis Public Library,		1
St. Mary's Hospital Medical School, Paddington, Lond., W.,		2
Salem Public Library,		2
San Francisco Free Pub. Library,		1
Seabury, Mary B.,	1	
Sherman, C. R., & Son,		1
Silas Bronson Library, Waterbury, Conn.,		2
Slafter, *Rev.* E. F., 249 Berkeley st., Boston,		1
Smithsonian Institution, Washington, D. C.,	4	8
Société Nationale d'Acclimatation de France,	3	
Society for Psychical Research, 19 Buckingham st., Adelphi, London, W. C.,		1
Southworth Public Library, So. Dartmouth, Mass.,		1
Spaulding, J. A., 226 Pearl st., Hartford, Conn.,	1	
Springfield City Library,		12
Stanton, Irving G., City,	4	23
State Normal School, Bridgewater, Mass.,		1
Swain Free School,		1
Tabor Academy, Marion, Mass.,		1
Taber, Chas., & Co.,		1
Taunton Public Library,		1
Toledo Public Library, Toledo, O.,		1
Tucker, Geo. F.,	1	6
Tyler, Chas. E.,		1
Tyler, W. Graham, Salem, N. J.,	1	
United Societies of Shakers, Canterbury, N. H.,	1	
United States:		
— Agricultural Department,	1	13

— Board on Geographic Names,		1
— Bureau of Education,		2
— Coast Survey,	2	6
— Interior Department,	99	4
— Labor Bureau,	2	
— Patent Office,	1	
— State Department,		21
— Treasury Department,	1	
— War Department,	4	
University of California, Berkeley, Cal.,		1
University of Deseret, Salt Lake City, Utah,		1
University of Louisville, Louisville, Ky.,		1
University of Pennsylvania, Philadelphia, Pa.,		1
Vassar, John G.,	2	
Veazey, Wheelock G., Washington, D. C.,	1	
Waite, Henry E., West Newton, Mass.,		1
Waltham Public Library,		1
Warren Co. Library and Reading Room Assoc., Monmouth, Illinois,		3
Waterhouse, S., St. Louis, Mo.,		2
Watertown Public Library,		1
Willey, H.,	10	5
Wilmington Institute, Wilmington, Del.,		1
Winslow, *Dr.* Geo. F.,		1
Woburn Public Library,		1
Worcester Free Pub. Lib., Worcester, Mass.,		1
Yale University, New Haven, Conn.,		3
Yorston Bros., 27 Union sq., New York City,		1

In Board of Aldermen,
May 12, 1892.

Received, ordered printed in the City Documents, and sent down for concurrence.

D. B. LEONARD,
City Clerk.

In Common Council,
May 12, 1892.

Concurred.

WM. A. MACKIE,
Clerk.

1892—CITY DOCUMENT No. 5.

ANNUAL REPORT

OF THE

CHIEF ENGINEER

OF THE

FIRE DEPARTMENT

OF THE CITY OF NEW BEDFORD,

FOR THE YEAR ENDING DECEMBER 31, 1891.

FREDERICK MACY, CHIEF ENGINEER.

NEW BEDFORD:
E. ANTHONY & SONS, Incorp., CITY PRINTERS.
1892.

COMMITTEE OF THE CITY COUNCIL

ON

FIRE DEPARTMENT,

1891.

Aldermen,

JOHN WING,

Residence, Mt. Pleasant.

EZEKIEL C. GARDINER,

Residence, 14 Crapo St.

Councilmen,

WM. H. RANKIN,

Residence, 27 Bonney St.

JOHN A. GOMLEY,

Residence, 198 Kempton St.

PETER F. SULLIVAN,

Residence, Corner County and Penniman Sts.

ENGINEERS' DEPARTMENT.

Chief Engineer,
FREDERICK MACY,
Residence, 234 Acushnet Avenue.

First Assistant Engineer,
LORING T. PARLOW,
Residence, 5 North Street.

Second Assistant Engineer,
PLINY B. SHERMAN,
Residence, 433 Acushnet Avenue.

Third Assistant Engineer,
AUGUSTUS A. WOOD,
Residence, 46 Hill Street.

Fourth Assistant Engineer,
HUGH McDONALD,
Residence, 113 Second Street.

Clerk of Board of Engineers,
LUTHER G. HEWINS, JR.,
Residence, 762 County Street.

Master Mechanic,
DANIEL D. BRIGGS,
Residence, 43 Bedford Street.

Department Engineer,
GEORGE H. PARKER,
Residence, Parker Street.

Department Driver,
SQUIRE A. GIFFORD,
Residence, 72 Walden Street.

Department Lineman,
ANDREW J. CROWLEY,
Residence, Corner Middle and Second Streets.

REPORT.

HEADQUARTERS FIRE DEPARTMENT,
CITY HALL, NEW BEDFORD,
DECEMBER 31st, 1891.

GENTLEMEN: — In compliance with the requirements of the city ordinance governing the Fire Department of the city, I herewith submit to you my fifteenth annual Report of the condition and work performed by this department for the year 1891, together with a list of members, with their rank, number of badge, age, residence, and occupation; location of hydrants and fire alarm boxes; list of key holders; a statement of receipts and expenses; fires and alarms; losses and insurance as near as could be ascertained; and such suggestions as I think will be necessary for the good of the department.

Everything in the department has run along about as usual. We have had more alarms than ever before, and although our losses have been somewhat larger than usual, I think they are comparatively small when we consider the nature of the property at risk. The three largest fires we had were the Moore & Diman fire on Purchase Street, March 19th; the Old Colony steamship sheds and cotton, April 28th; and Hall's steam laundry on Acushnet Avenue, May 27th. These three fires caused more than one half of the losses for the year.

The department is in most excellent condition, the members have been prompt in responding to all alarms, and have performed their duties in a satisfactory manner.

It is with pleasure I can report no deaths among the members, and but very few slight accidents during the year.

The placing of the new Hayes truck at the South End is a great improvement, and adds much to the strength of the department; for with a truck at each end and one in the centre of the city, we can have one arrive at a fire as early as an engine, and not leave so much territory exposed.

The running card of the department has been revised, and I think covers every contingency, and to some of our most dangerous boxes sends three engines, instead of two, on the first alarm.

At a meeting of the City Government, held early in December, it was ordered that six more permanent men be appointed by the Board, which was done, and they were assigned to their positions as reel drivers on the 30th, which adds a great deal to the efficiency of the department.

FORCE OF THE DEPARTMENT.

The force of the department consists of one chief, four assistants and clerk, twenty-nine permanent men and one hundred and seventy-five call men, making a total of two hundred and ten men.

APPARATUS.

The apparatus consists of seven steam fire engines, six in commission and one in reserve, one hand engine at the Head of the River, one two and four four-wheeled horse hose carriages, three hose wagons, two Hayes aerial ladder trucks, one Ryan truck in commission and one old truck in reserve, nine exercise and coal wagons, and one telegraph wagon. Our men at the repair shop have built a

hose wagon to take the place of the reel of Number Four engine, and we have another underway for Number One, and I am in hopes to soon replace all the reels with wagons, as we find them much more convenient.

HOUSES.

There are seven brick and one wooden engine houses, most of them in good repair. There has been an addition built to Number Six engine house. The lot has been graded and sheds and fences built at the house of Number Seven, and I would call the attention of the incoming government to the great necessity of a shed and fences to the lot of the Weld Street ladder house. The floor of the repair shop is in very poor condition, and should receive early attention. There has been considerable work done at the houses during the year, in the way of plumbing, painting, and carpentering, and the only work I know of now is touching up at the spring cleaning.

HORSES.

There are thirty horses in the department, most of them in very good condition, but it will be necessary to purchase two or three spare ones.

HARNESSES.

There are ten sets of double and ten single harnesses, all in good condition.

HOSE.

There are twelve thousand feet of cotton rubber-lined hose in the department, most of it in good condition, but some of it is getting old and ought to be replaced. I

would recommend the purchase of one or two thousand feet the coming year.

WATER SUPPLY.

The number of hydrants, January 1st, 1891, was four hundred and seventy-seven (477); added during the year, twenty-two (22), making a total of four hundred and ninety-nine (499). There are thirty (30) reservoirs. We have had a good water supply on all occasions. The water supply is being constantly improved, and we begin to see the effects of the large mains which have been laid in the past few years; and when the work on Purchase and Union streets, which I understand the Water Board contemplates, is finished, we can do a large amount of work with hydrants, without the aid of engines.

FIRE ALARM.

The Fire Alarm is in splendid condition, and has worked well during the year. There have been two 1500-lb. bells added during the year, one on the Harrington school-house, and one at the Head of the River. There have been no boxes added for a long time, but there should be three or four the coming year. We have now sixty-one (61) boxes, 18 of which are private, thirty-five (35) miles of wire, eleven (11) bells and strikers, eight (8) fifteen-inch engine house gongs, seven (7) seven-inch engine gongs, and six (6) small tappers, operated by a battery of two hundred and twenty-two (222) cups.

PROTECTIVE DEPARTMENT.

The members of this department have been prompt in responding to all alarms, and have been the means of

saving a large amount of property, but they could have saved more had their supply of rubber covers not been so limited; they should have at least double the number they now have.

RECEIPTS AND EXPENDITURES.

Annual appropriation for 1891,		$37,000.00
Special appropriation for New H. & L. Truck, horses, etc.,		4,750.00
Bell on Harrington school-house,		1,000.00
Bell at Head of River,		1,000.00
Cash received and paid to City Treasurer as follows:		
For pumping,	$29.00	
Sale of copper and old material,	69.96	
Sale of horses,	400.00	
Sale of harness hangers,	18.00	
Sale of manure (City Farm),	296.39	
Sale of coal (Fairhaven Dep't),	8.40	
Sale of stock (Police Dep't),	41.01	
Labor, " "	503.57	
Overpaid and returned,	4.00	1,370.33
Transfer to balance account,		5,276.82
		$50,397.15
Expenditures,		$50,397.15

CONCLUSION.

To His Honor the Mayor and gentlemen of the City Council, for the interest taken in this department, to the Board of Engineers, for their hearty support, and to the officers and members of the department, for the faithful manner in which they have performed all their duties, I return my most sincere thanks.

FREDERICK MACY,
Chief of Fire Department.

STATEMENT OF EXPENDITURES.

STATEMENT No. 1.

EXPENDITURES OF THE BOARD OF ENGINEERS FOR THE YEAR 1891.

Pay-roll,	$2,020.16

STATEMENT No. 2.

EXPENDITURES OF THE NEW BEDFORD PROTECTING SOCIETY FOR THE YEAR 1891.

Pay-roll,	$150.00

STATEMENT No. 3.

EXPENDITURES OF THE FIRE ALARM FOR THE YEAR 1891.

Pay of Assistant Superintendent,	$600.00	
Grain,	96.26	
Hay,	43.97	
Vitriol,	126.51	
Wire,	21.05	
Zinc,	46.95	
Lumber,	7.60	
Strikers,	545.00	
Bells,	587.83	
Poles,	12.00	
Gongs,	30.00	
Labor,	112.92	
Supplies,	175.21	$2,405.30

STATEMENT No. 4.

RUNNING EXPENSES OF THE COMPANIES FOR THE YEAR 1891.

Company pay-rolls,	$9,448.28	
Permanent men's pay-rolls,	18,839.36	
Hay and straw,	2,103.64	
Grain,	1,389.12	
Shoeing and blacksmithing,	442.94	
Harnesses and repairs,	351.09	
Wood and coal,	579.74	
Gas,	105.48	
Electric lights,	496.84	
Engine and wagon repairs,	1,165.40	
Incidentals,	55.73	$34,978.12

STATEMENT No. 5.

REPAIRS OF BUILDINGS FOR THE YEAR 1891.

Weld street engine house,	$96.48	
No. 1 engine house,	341.89	
Central engine house,	10.02	
No. 4 engine house,	266.39	
No. 5 engine house,	45.05	
No. 6 engine house,	923.56	
No. 7 engine house,	58.40	
No. 9 engine house,	136.94	
Repair shop,	6.36	$1,885.09

STATEMENT No. 6.

INCIDENTAL AND SUPPLY ACCOUNT FOR 1891.

Horse hire,	$644.03	
New hose and repairs,	1,300.00	
Telephones,	393.72	
Horses,	1,325.00	
Labor,	171.17	
Rent,	92.50	
Printing and advertising,	34.00	
Transportation and carting,	98.27	
Cannel coal,	155.52	
Doctoring for horses,	148.00	
Medicines for horses,	87.32	
Extinguishers,	80.00	
New hook and ladder truck,	3,040.00	
Sundries,	1,388.95	$8,958.48

STATEMENT No. 7.

TOTAL EXPENDITURES OF THE FIRE DEPARTMENT FOR THE YEAR 1891.

Expenditures Board of Engineers, as per Statement No. 1,	$2,020.16
Expenses of Protecting Society, as per Statement No. 2,	150.00
Expenditures of Fire Alarm, as per Statement No. 3,	2,405.30
Running expenses, as per Statement No. 4,	34,978.12
Repairs of Buildings, as per Statement No. 5,	1,885.09
Incidentals and Supplies, as per Statement No. 6,	8,958.48
	$50,397.15

ONWARD STEAM FIRE ENGINE CO., No. 1.

House on Purchase street, foot of Franklin street. Engine built by Amoskeag Manufacturing Co., Manchester, N. H.; capacity 500 gallons per minute; weight of engine, as drawn to fires, 6950 lbs.; weight of hose carriage, with 1050 feet of Boyd's cotton hose, 2850 lbs.; put into service August 26, 1869. Company organized December 30, 1871.

Date of Joining.	No. of Badge	Name.	Rank.	Age.	Residence	Occupation.
Apr. 29, 1873.	8	Allen W. Tinkham	Captain.	37	30 County ave.	Carpenter.
June 28, 1876.	17	Geo. A. Tripp.	1st Lieut.	35	63 Foster st.	Shoemaker.
May 7, 1883.	11	F. W. Brightman.	2d Lieut.	33	72 Kempton st.	Paint manfr.
Dec. 30, 1871.	9	E. C. Milliken.	Clerk.	48	193 Pleasant st.	Baker.
Apr. 24, 1882.	6	Edward M. Durfee	Hoseman.	47	488 Acushnet av.	Blacksmith.
May 31, 1880.	24	Chas. A. Wilson.	"	35	Walden st.	Carpenter.
Jan. 28, 1873.	7	Julian A. Sweet.	"	43	134 State st.	Roll coverer.
Dec. 29, 1882.	19	John Whitehead.	"	48	580 Purchase st.	Frame Maker.
Aug. 31, 1885.	10	Wm. O. Brightman	"	39	83 Austin st.	Paint manfr.
Apr. 29, 1889.	18	Roland A. Hatch.	"	24	49 Bowditch st.	Clerk.
May 5, 1890.	16	Oscar S. Hammond	"	23	70 North st.	Carpenter.
July 28, 1890.	15	Chas. H. Thomas.	"	30	87 Locust st.	Roll coverer.
Sept. 1, 1885.	13	John T. Aghen.	Substitute.	28	8 Willis st.	Clerk.
Apr. 29, 1889.	12	Albert D. Milliken.	"	21	193 Pleasant st.	Reporter.
May 18, 1891.	20	Benjamin Groves.	Engineer.	36	Engine house.	Engineer.
Dec. 30, 1871.	21	James L. Bryant.	Driver.	53	Engine house.	Driver.
April 1, 1884.	22	Harris N. Tinkham	Stoker.	35	Parker st.	Blacksmith.
Apr. 10, 1885.	23	Isaac Dawson.	Reel driver	25	Engine house.	Driver.

PROGRESS STEAM FIRE ENGINE CO., No. 2.

House corner Purchase street and Mechanics lane. Engine built by the Amoskeag Manufacturing Co., Manchester, N. H.; capacity 500 gallons per minute; weight of engine as drawn to fires, 7000 lbs.; weight of hose carriage, with 1050 feet Boyd's cotton hose, 2850 lbs.: put in commission November 6, 1884. Company organized October 27, 1860.

Date of Joining.	No. of Badge	Name.	Rank.	Age.	Residence.	Occupation
Oct. 7, 1878.	30	Geo. M. Crapo.	Captain.	41	48 No. Second st.	Frame Maker.
Nov. 1, 1862.	25	John Downey.	1st Lieut.	54	119 N. Second st.	Teamer.
Sept. 7, 1884.	32	Chas. F. Dean.	2d Lieut.	36	59 Elm st.	Carriage Painter.
Aug. 7, 1874.	27	James D. Allen.	Clerk.	55	202 Purchase st.	Clerk.
Jan. 1, 1872.	29	James G. Harding.	Hoseman.	57	62 State st.	Carpenter.
June 6, 1876.	26	E. R. Leverett.	"	38	188 Middle st.	Clerk.
July 3, 1876.	34	Moses Dean.	"	37	202 Purchase st.	Blacksmith.
May 5, 1884.	36	Sam'l W. Mitchell.	"	33	155 Purchase st.	Clerk.
May 5, 1885.	35	Wm. K. Wagner.	"	35	208 Pleasant st.	Telephone Engineer.
Jan. 21, 1886.	37	E. K. Pierce.	"	30	19 Mill st.	Shoemaker.
Oct. 6, 1890.	33	Alex. J. Aiken.	"	30	116 N. Second st.	Painter.
Dec. 1, 1890.	24	Joseph L. Crowley	"	22	Corner Water and Elm st.	Plumber.
Oct. 6, 1890.	28	Wm. L. Edwards.	Substitute.	23	62 North st.	Clerk.
Dec. 1, 1890.	28	Henry A. Sherman	"	36	63 Kempton st.	Carriage-smith.
Feb. 24, 1890.	38	Albert W. Taber.	Engineer.	56	Engine house.	Engineer.
May 1, 1871.	39	Wm. P. Soule.	Driver.	58	303 Acushnet av.	Hostler.
July 16, 1876.	41	Michael Conway.	Reel driver	53	8 Walnut st.	Hostler.
Aug. 20, 1874.	40	Lemuel W. Hayes.	Stoker.	48	18 Hillman st.	Wood turner

CORNELIUS HOWLAND STEAM FIRE ENGINE CO., No. 4.

House corner Sixth and Bedford streets. Engine built by the Amoskeag Manufacturing Co., Manchester, N. H.; capacity 500 gallons per minute; weight of engine, as drawn to fires, 7000 lbs.; weight of hose carriage, with 1050 feet Boyd's cotton hose, 2850 lbs.; put into service May 20, 1884. Company organized February 1, 1867.

Date of Joining.	No. of Badge	Name.	Rank.	Age	Residence.	Occupation.
Aug. 31, 1885.	48	James J. Donaghy	Captain.	27	91 Washington st	Laundryman.
Dec. 6, 1877.	47	Charles H. Card.	1st Lieut.	44	73 Forest st.	Lineman.
July 26, 1886.	43	Wm. E. Watson, Jr.	2d Lieut.	28	37 Fifth st.	Clerk.
Mar. 29, 1868.	50	Wm. A. Gibbs.	Clerk.	41	73 Forest st.	Cabinet Maker.
Jan. 29, 1867	46	James M. Tripp.	Hoseman.	56	211 Acushnet av.	Carpenter
Nov. 10, 1879	53	Benj. F. Hinckley.	"	34	22 Madison st.	Printer.
Dec. 10, 1877.	42	Edgar S. Gilbert.	"	44	302 County st.	Painter.
Sept. 29, 1872	44	Chas. S. Wing.	"	37	199 So. Second st.	Clerk.
Feb. 16, 1888.	49	Frank C. Jennings	"	25	19 Allen st.	Clerk.
Mar. 25, 1889.	45	Leander Reed.	"	43	3 Bay st.	Machinist.
April 1, 1889.	51	John W. Donaghy.	"	25	103 Acushnet av.	Marble Worker.
Aug. 28, 1882.	52	Samuel Watson, 2d	"	33	173 Fourth st.	Grocer.
May 26, 1890.	54	Edwin F. Tripp.	Substitute.	22	211 Acushnet av.	Expressman.
Oct. 26, 1891	55	Wm. N. Jewett.	"	25	70 School st.	Clerk.
Apr. 29, 1878.	56	Alonzo V. Jason.	Engineer.	37	Engine house.	Engineer.
Jan. 29, 1867.	57	Geo. H. W. Tripp.	Driver.	56	Engine house	Hostler.
April 1, 1889.	59	Wm. C. Kennedy.	Reel driver	25	Engine house.	Hostler.
Jan. 27, 1873.	58	John H. Backus.	Stoker.	40	7 West Rivet st.	Blacksmith.

ZACHARIAH HILLMAN STEAM FIRE ENGINE CO., No. 5.

House corner of County and Hillman streets. Engine built by Messrs. Clapp & Jones, Hudson, N. Y.; capacity 500 gallons per minute; weight of engine, as drawn to fires, 7250 lbs.; weight of hose carriage with 1050 feet Boyd's cotton hose, 2850 lbs.; put into service December 13, 1873. Company organized December 13, 1873.

Date of Joining.	No. of Badge	Name.	Rank.	Age.	Residence.	Occupation.
May 5, 1884.	67	Geo. H. Cook.	Captain.	30	14 Spruce st.	Salesman.
Dec. 31, 1888.	70	Thos. H. Forbes.	1st Lieut.	30	121 Cedar st.	Shoemaker.
Sept. 30, 1889.	71	Obed S. Cowing.	2d Lieut.	28	32 North st.	Carpet Upholsterer.
Oct. 1, 1885.	63	Joseph C. Forbes.	Clerk.	25	201 Cedar st.	Shoemaker.
Dec. 13, 1873.	62	Isaiah H. Wilcox.	Hoseman.	56	506 Acushnet av.	Painter.
May 1, 1876.	64	Geo. H. Chadwick.	"	58	154 Kempton st.	Painter.
May 23, 1886.	61	Henry C. Stubbs.	"	39	638 County st.	Painter.
Sept. 30, 1890.	68	Thomas N. Meyers	"	30	295 Summer st.	Frame Maker.
Oct. 27, 1890.	66	Edw. N. Bennett.	"	31	137 Summer st.	Salesman.
Feb. 9, 1891.	60	Geo. E. Macomber	"	39	120 High st.	Shoemaker.
June 7, 1888.	72	Henry K. Jones.	"	23	329 Cottage st.	Machinist.
Feb. 9, 1891.	73	Ernest L. Soule.	"	29	125 Maxfield st.	Sash maker.
June 29, 1891.	69	Wm. R. Shaw.	Substitute.	21	443 Cottage st.	Clerk.
Dec. 28, 1891.	65	Geo. H. Nickerson.	"	23	319 Cottage st.	Shoemaker.
Jan. 7, 1874.	75	Benj. F. King, Jr.	Driver.	52	Engine house.	Hostler.
Dec. 13, 1873.	74	Martin Blanchard.	Engineer.	48	Engine house.	Engineer.
Jan. 29, 1883.	77	Martin S. Nelson.	Reel driver	35	Engine house.	Hostler.
May 1, 1882.	76	Chas. W. Jones.	Stoker.	33	329 Cottage st.	Woodturner.

FREDERICK MACY STEAM FIRE ENGINE CO., No. 6.

House on Fourth street, head of Potomska street. Engine built by Manchester Locomotive Works, Manchester, N. H.; capacity 500 gallons per minute; weight of engine as drawn to fires, 7100 lbs.; weight of hose carriage with 1050 feet Boyd's cotton hose, 2850 lbs.; put into service November 1, 1882. Company organized October 31, 1882.

Date of Joining.	No. of Badge	Name.	Rank.	Age	Residence.	Occupation.
Oct. 31, 1882.	121	Geo. W. Parker.	Captain.	40	135 Washington st	Bookkeeper.
Oct. 26, 1886.	130	Edward W. O'Neil	1st Lieut.	30	30 Thompson st.	Glass cutter.
Oct. 31, 1882.	132	Jason L. Ballou.	2d Lieut.	46	37 Crapo st.	Carpenter.
Oct. 31, 1882.	122	Herb't B. Gardner	Clerk.	45	114 Washington st	Compositor.
May 8, 1884.	126	Robert N. Allen.	Hoseman.	47	26 Thompson st.	Painter.
Oct. 31, 1882.	127	Thos. Wood.	"	45	34 Bonney st.	Photograp'r.
Oct. 31, 1882.	125	Marshall S. Greene	"	37	Rivet st., near Crapo.	Mason.
Mar. 27, 1883.	128	Joseph Jackson.	"	36	59 Allen st.	Barber.
Oct. 31, 1882.	133	Charles K. Wood.	"	40	87 Acushnet av.	Passepartout Maker.
Oct. 31, 1882.	135	Fred'k S. Nelson.	"	25	200 S. Second st.	Mason.
Jan. 1, 1888.	138	Walter Almond.	"	29	3 Hall st.	Turner.
Feb'y 3, 1890.	131	Chas. E. Allen.	"	23	Contemplated Hall st.	Painter.
Nov. 3, 1890.		James T. Galligan	Substitute.	25	Corner Fourth and Thompson	Clerk.
June 30, 1891.	123	John F. Rogers.	"	23	86 Grinnell st.	Britannia Worker.
Oct. 31, 1882.	137	Chas. G. Taber.	Engineer.	43	224 County st.	Engineer.
Nov. 24, 1885.	142	Henry M. Mosher.	Stoker.	43	205 County st.	Press worker
Oct. 31, 1882.	134	Frank A. C. Greene	Driver.	26	87 Acushnet av.	Hostler.
Oct. 31, 1882.	136	N. Herbert Greene.	Reel driver	35	Acushnet av. and Potomska.	Hostler.

STEAM FIRE ENGINE CO., No. 7.

House on Durfee street. Engine built by Manchester Locomotive Works, Manchester, N. H.; capacity 500 gallons per minute; weight of engine as drawn to fires, 7000 lbs. Put into service September 1, 1890. Company organized September 1, 1890.

Date of Joining.	No. of Badge	Name.	Rank.	Age.	Residence.	Occupation.
Sept. 1, 1890.	195	Samuel C. France.	Captain.	32	152 Mt. Pleasant street.	Salesman.
"	196	James Slater.	1st Lieut.	40	680 Purchase st.	Merchant.
"	197	Stephen C. Lowe.	2d Lieut.	34	39 Sy more st.	Merchant.
"	198	Thomas Mack.	Clerk.	29	248 Cedar st.	Clerk.
"	204	Edward H. Booth.	Hoseman.	41	35 Durfee st.	Carinspector
"	206	John H. Ryan.	"	33	561 Cottage st.	Plumber.
"	205	M. C. Dahill.	"	31	70 Linden st.	Shoemaker.
"	210	Wm. Simmister.	"	25	119 Austin st.	Clerk.
"	209	C. A. Galligan.	"	24	61 Durfee st.	Merchant.
"	207	J. D. Manseau.	"	26	Collins st.	Clerk.
"	203	Geo. A. Bosworth.	"	28	9 Richmond st.	Carpenter.
"	201	E. H. Coggeshall.	"	21	126 Mt. Pleasant street.	Carpenter.
"	212	Jas. M. Whittaker.	Substitute.	27	342 Cedar st.	Driver.
Nov. 1, 1890.	211	C. L. Dunham.	"	25	1036 Acushnet av	Merchant.
Sept. 1, 1890.	199	James R. Goddard	Engineer.	34	59 Mt. Pleasant street.	Engineer.
"	200	William H. King.	Driver.	28	53 Mt. Pleasant street.	Hostler.
"	202	A. W. Tripp.	Stoker.	39	Durfee and Ashland.	Shoemaker.
"	208	James McDonell.	Reel driver	23	130 Austin st.	Merchant.

HANCOCK ENGINE CO., No. 9.

House located at Acushnet. Engine built by John Agnew of Philadelphia, in 1843. Engine removed to Acushnet Jan. 18, 1861, and a company was organized to man her at that time. Company reorganized Dec. 14, 1878.

Date of Joining.	No. of Badge	Name.	Rank.	Age.	Residence.	Occupation.
Dec. 14, 1878.	146	John A. Russell.	Captain.	41	Acushnet av.	Farmer.
Mar. 7, 1883.	147	F. P. Washburn.	1st Lieut.	48	"	Carpenter.
Dec. 14, 1878.	154	Joseph W. Spooner	2d Lieut.	39	"	Peddler.
Dec. 14, 1878.	165	Allen Russell, Jr.	Clerk.	34	"	Grocer.
May 1, 1882.	159	Israel H. Peckham	Suction Hoseman.	49	Tarkiln Hill road	Blacksmith.
Dec. 14, 1878.	158	L. A. Washburn.	"	53	Acushnet av.	Teamster.
"	153	Wm. T. Gifford.	Leading Hoseman.	44	Mill road.	Farmer.
"	160	Herb't M. Spooner	"	34	Acushnet av.	Box maker.
Sept. 3, 1883.	151	John G. Whalon.	"	30	"	Box maker.
Dec. 14, 1878.	166	Eli W. Reed.	"	53	Tarkiln Hill road	Teamster.
Jan'y 7, 1889.	163	Nathan C. Briggs.	Steward.	54	Acushnet av.	Carpenter.
Feb'y 4, 1889.	161	Wm. P. Reed.	Brakeman.	38	Tarkiln Hill road	Teamster.
Dec. 14, 1878.	149	John Silvia.	"	54	Belville road.	Shoemaker.
Nov. 1, 1886.	150	Job T. Haskins.	"	45	Mill road.	Box maker.
Dec. 14, 1878.	148	A. B. Grinnell, Jr.	"	52	Acushnet av.	Grocer.
"	152	James A. Wilbur.	"	46	Mill road.	Laborer.
"	157	Geo. W. Randall.	"	54	Main st.	Sawyer.
Dec. 4, 1882.	164	Geo. W. Hawes.	"	37	Acushnet av.	Teamster.
Dec. 6, 1886.	145	John F. Parker.	"	22	"	Carriage painter.
June 4, 1888.	162	John G. Dawson.	"	27	Tarkiln Hill road	Clerk.
May 3, 1886.	155	Geo. H. Gifford.	"	21	Acushnet av.	Box maker.
May 7, 1888.	156	John B. Wilbur.	"	21	Mill road.	Plumber.
May 4, 1891.		Frank C. Bennett.	Substitute.	17	Howard st.	Carpenter.
May 4, 1891.		Geo. J. Allen.	"	17	Acushnet av.	Box maker.

HOOK AND LADDER CO., No. 1.

House corner of Purchase street and Mechanics lane. Carriage built by La France Steam Fire Engine Co., Elmira, N. Y.; put into commission November 1, 1891.

Date of Joining.	No. of Badge.	Name.	Rank.	Age.	Residence.	Occupation.
Jan. 27, 1890.	104	Phillip C. Russell.	Captain.	29	4 Walnut st.	Clerk.
Sept. 26, 1887.	100	Loren N. Mosher.	1st Lieut.	34	30 Elm st.	Shoemaker.
Jan. 26, 1891.	88	Chas. P. Johnson.	2d Lieut.	33	72 First st.	Mechanic.
Mar. 30, 1874.	89	Chas. E. Pierce.	Clerk.	44	117 Willis st.	Printer.
Aug. 1, 1879.	96	Nath'l H. Caswell.	Ladderm'n	44	390 Union st.	Blacksmith.
Jan. 31, 1870.	87	Lysander W. Davis	"	57	106 Chestnut st.	Carpenter.
June 24, 1883.	105	Edward D. Francis	"	36	26 Kempton st.	Shoemaker.
June 24, 1889.	91	Wm. L. Fletcher.	Axeman.	26	129 Kempton st.	Machinist.
Nov. 29, 1886.	103	Alfred M. Gifford.	Ladderm'n	28	72 Walden st.	Teamster.
Aug. 5, 1865.	102	Chas. J. Johnson.	"	58	23 Locust st.	Spar maker.
Oct. 26, 1863.	90	Abram R. Luscomb	"	53	42 Parker st.	Laborer.
June 24, 1889.	107	Wm. R. Russell.	"	24	4 Walnut st.	Ornamenter.
Jan. 5, 1884.	101	Frank Spooner.	"	35	17 S. Second st.	Painter.
Aug. 7, 1863.	86	Philip M. Tripp.	"	52	102 Ash st.	Teamster.
July 26, 1880.	92	Clarfus Vansant.	Axeman.	54	Cor. Mill and Acushnet ave.	Blacksmith.
May 26, 1890.	106	Wm. W. Brannan.	Substitute.	22	1 Pease court.	Clerk.
July 25, 1890.	98	Geo. A. Caswell.	"	21	390 Union st.	Mat maker.
Sept. 1, 1888.	93	Geo. S. Allen.	Driver.	31	303 Acushnet av.	Hostler.
Sept. 13, 1888.	97	Chas. W. Vining.	Tillerman.	34	39 Elm st.	

HOOK AND LADDER CO., No. 2.

House on Weld street. Carriage built by Joseph T. Ryan of Boston; put into commission August 4, 1877. Present company organized September, 1888.

Date of Joining	No. of Badge	Name	Rank.	Age	Residence.	Occupation.
Sept. 1, 1888.	171	Henry W. Kenyon	Captain.	49	910 Acushnet av.	Overseer.
"	172	Edward F. Dahill	1st Lieut.	29	Austin st., west of County.	Merchant.
"	175	Martin H. Sullivan	2d Lieut.	34	1017 Purchase st.	Carpenter.
"	180	Peter F. Sullivan.	Clerk.	31	370 State st.	Grocer.
"	173	Albert W. Moore.	Ladderm'n	41	32 Weld st.	Conductor.
"	176	John W. Bannister	"	30	Purchase st.	Salesman.
"	177	John S. Harrington	"	32	Weld and Pleasant sts.	Baker.
"	178	David Warren.	"	35	235 State st.	Stable keeper
"	179	Wm. McCann.	"	31	Howard st.	Salesman.
"	181	Edward T. Ryan.	"	34	County and Penniman.	Druggist.
"	182	Alfred Chausse.	Axeman.	24	Cedar Grove st.	Clerk.
"	183	Jer. T. Haggerty.	"	23	Bowditch st.	Grocer.
May 1, 1890.	184	Frank R. Pease.	Substitute.	34	926 Acushnet av.	Druggist.
Sept. 1, 1890.	174	Tim. E. Lowney.	"	23	847 Purchase st.	Carpenter.
Sept. 1, 1888.	108	Lewis G. Allen.	Driver.	69	Engine house.	Hostler.

HOOK AND LADDER CO., No. 3.

House on Fourth street, head of Potomska. Carriage built by La France Steam Fire Engine Co., Elmira, N. Y.; put into commission August 30, 1888. Present company organized November 1, 1891.

Date of Joining.	No. of Badge	Name.	Rank.	Age.	Residence.	Occupation.
Nov. 1, 1891.	217	E. Edward Enos.	Captain.	28	831 So. Water st.	Druggist.
"	218	John O'Neil.	1st Lieut.	28	30 Thompson st.	Glass cutter.
"	219	Daniel S. Nelson.	2d Lieut.	27	92 Grinnell st.	Mason.
"	220	John J. Meaney.	Clerk.	22	Rockland and Acushnet av.	Carpenter.
"	221	Henry E. Chase.	Ladderm'n	28	167 Grinnell st.	Painter.
"	222	Henry D. Lindsey.	Axeman.	29	County and Rockland.	Carpenter.
"	223	Robert W. Cooke.	Ladderm'n	23	289 Fourth st.	Clerk.
"	224	James R. Gifford.	Axeman.	29	75 Forest st.	Electrician.
"	225	C. J. Krausser.	Ladderm'n	22	78 Allen st.	Decorator.
"	226	Charles B. Church.	"	21	204 County st.	Fish dealer.
"	227	John P. Kelley.	"	29	264 Fourth st.	Glass cutter.
"	228	Harry D. Ricketson	"	24	92 Grinnell st.	Spoon maker
"	229	George H. Baylies.	Substitute.	19	273 Fourth st.	Decorator.
"	230	James T. Dugan.	"	21	Potomska st.	Blacksmith helper.
"	231	Harry J. Marshall.	Tillerman.	27	Engine house.	
"	232	Squire A. Gifford.	Driver.	34	106 Cedar st.	Hostler.

HOSE COMPANY No. 1.

House corner of Purchase street and Mechanics lane. Wagon built by Brownell, Ashley & Co., New Bedford; put in commission December 1, 1888. Company organized December 31, 1871.

Date of Joining.	No. of Badge	Name.	Rank.	Age.	Residence.	Occupation.
Dec. 6, 1873.	79	David W. Howland	Captain.	55	45 North st.	Carriage Smith.
1889.	83	John W. Baker.	1st Lieut.	30	34 No. Sixth st.	Carpenter.
Dec. 1885.	78	Aug. G. Mitchell.	2d Lieut.	32	86 No. Second st.	Painter.
1887.	85	John B. Oliver.	Clerk.	27	200 Elm st.	Blacksmith.
Jan. 1, 1873.	81	Jas. S. Hathaway.	Hoseman.	61	496 Acushnet av.	Boat builder.
Mar. 6, 1880.	82	Chas. T. Maxfield.	"	27	49 Mechanics l.	Printer.
1888.	80	Wm. H. Maxfield	"	25	49 Mechanics l.	Painter.
Mar. 9, 1891.	84	David Clymonts.	Driver.	34	57 Spring st.	Laborer.
1889.	167	Wm. Young.	Substitute.	31	129 Purchase st.	Glass engraver.

HOSE COMPANY No. 2.

House on Weld street. Carriage built by the Amoskeag Manufacturing Co., Manchester, N. H.; weight of carriage and 900 feet of vulcanized rubber hose, 2790 lbs.; put into service January 1, 1872. Present company organized December 3, 1888.

Date of Joining.	No. of Badge	Name.	Rank.	Age.	Residence.	Occupation.
Dec. 3, 1888.	186	Joseph Dawson.	Captain.	31	643 Purchase st.	Salesman.
"	187	Mark Watson.	1st Lieut.	32	990 Purchase st.	Salesman.
"	188	Stephen L. Finnell	2d Lieut.	32	17 Reynolds st.	Salesman.
"	192	George C. Hewins.	Clerk.	20	762 County st.	Clerk.
"	189	Barthol. P. Fury.	Hoseman.	27	Linden st.	Salesman.
"	190	Frank E. Foley.	"	24	State st.	Salesman.
April 16, 1880.	189	Wm. Wolfenden.	"	22	399 Pleasant st.	Hair dresser.
Aug. 19, 1890.	194	Harry Greenhalgh	Substitute.	25	Purchase st.	Grocer.
Dec. 3, 1888	193	Reuben Taber.	Driver.	36	32 Bowditch st.	Hostler.

NEW BEDFORD PROTECTING SOCIETY.

President, Charles S. Kelley; First Director, Jonathan Handy, Second Director, William A. Robinson; Third Director, Charles H. Lawton; Fourth Director, Edward T. Pierce; Fifth Director, Charles M. Haskell; Sixth Director, Edmund F. Maxfield; Seventh Director, Edmund Wood; Eighth Director, John H. Lowe; Secretary and Treasurer, Edmond L. Wilde.

Francis T. Akin,
Gilbert Allen,
Gideon Allen, Jr.,
George H. H. Allen,
William Bamford,
O. Frank Bly,
Standish Bourne,
George E. Briggs,
Thomas Boardman,
Charles A. Case,
R. C. P. Coggeshall,
Clifton H. Cornish,
Edwin Dews,
Henry C. Denison,
John H. Denison,
Ernest A. Dunham
Joseph Dias,
John Eldridge, Jr.,
Walter F. Field,
Edward R. Gardner,
John E. Gibbs,
Edmund Grinnell,
Frank H. Gifford,
Chas. H. Gifford,
A. W. Hadley,
Charles H. Holden,
John J. Howland,
Charles M. Hussey,
Henry F. Hammond,
Henry Howard,
Thomas H. Knowles,
G. D. Kingman,
Edgar R. Lewis,
Philander F. Manchester,
Willard Nye, Jr.,
Otis N. Pierce,
William F. Potter,
Arthur E. Perry,
James N. Parker,
William H. Pitman,
Charles L. Paine,
Stephen D. Pierce,
George A. Phillips,
William F. Reed,
Morgan Rotch,
William A. Russell,
Arthur E. Robbins,
Louis H. Richardson,
Gardner T. Sanford,
Frank E. Sawin,
R. W. Swift,
Frederick Swift,
William T. Smith,
Leander H. Swift,
Edward S. Shaw,
Robert Snow,
Charles M. Taber,
William T. Taylor,
Henry W. Taylor,
Alfred Thornton,
Alfred G. Wilbor,
William H. Willis,
Horace Wood,
Frederick A. Washburn,
Thomas F. Wood,
William R. West,
Mark T. Vincent.

Fire Alarms, Losses and Insurance, for 1891.

The loss by fire for the year 1891 was $43,032.65. Amount of insurance, $297,487.13. Number of bell alarms, 57. Still and telephone alarms, 52.

Jan. 4. (Telephone.) Chimney fire in dwelling-house 96 Madison street, owned and occupied by Jireh Swift. Extinguished by men from No. 4 engine-house. No loss.

Jan. 5, 7 30 A. M. Box 34. Fire in gate-house foot of Commercial street, owned and occupied by the Old Colony R. R. Co. Cause, overheated stove. Companies responding: Engines 2 and 4, Hook and Ladder No. 1, and Hose 1. Loss, $20; no insurance.

Jan. 7, 2 30 P. M. (Telephone.) Fire in dwelling-house No. 123 Austin street, owned by Frank Bonner. Cause, wood-box too near stove. Extinguished by men from No. 7. Loss, $55; insurance, $1200.

Jan. 12. (Still.) Fire in dwelling-house No. 276 Kempton street, occupied by Robert H. Carter. No loss.

Jan. 16, 3 A. M. Box 56. Fire in hen-house on Blackmer street, owned by Mr. Miller. Cause unknown. Companies responding: Engines 4 and 6, Hook and Ladder 1, and Hose 1. No loss.

Jan. 19. (Still.) Fire in house on North Front street, owned by Mr. Roys and occupied by Edward Chausse. Cause, burning tobacco dropped in basket of clothes. Extinguished by men from Weld street engine-house. No loss.

Jan. 20, 3 P. M. Box 23. Fire in house on Rockdale avenue, owned and occupied by Wm. G. Hayden. Cause, defective furnace. Companies responding: Engines 2 and 5, Hook and Ladder 1, and Hose 1.

Jan. 20, 3 03 P. M. Box 23. Second alarm for same fire. Companies responding: Engines 4 and 7, Hook and Ladder 2. Loss on building, $1000; insurance on building, $800. Loss on contents, $300; no insurance.

Jan. 22. Box 46. Chimney fire in house No. 218 So. Front street. Companies responding: Engines 4 and 6, Hook and Ladder 1, and Hose 1. No loss.

Jan. 25. (Still.) Chimney fire in house corner of Second and Middle streets, occupied by Dennis Lynch. Loss, $13.99; insurance, $300.

Jan. 26. (Telephone.) Fire in house No. 57 Campbell street, owned by Rodolphus Beetle, and occupied by Harry S. Hutchinson. Cause, girl's clothes caught fire from stove. Extinguished by men from No. 5 engine-house. The girl was so severely burned that she died in March. Loss to contents, $65.56; insurance on contents, $1000.

Feb. 2, 9 30 P. M. Box 125. Fire in barn on Washburn street, owned and occupied by Daniel McCarthy. Cause, incendiary. Companies responding: Engines 1 and 5, Hook and Ladder 2, and Hose 2. Loss on building, $150; insurance on building, $200. Loss on contents, $212; insurance on contents, $300.

Feb. 4, 7 P. M. Box 57. Chimney fire in dwelling-house No. 95 County street, occupied by John W. Howland. Companies responding: Engines 4 and 6, Hook and Ladder 1, and Hose 1. No loss.

Feb. 5, 9 40 A. M. (Still.) Chimney fire in house No. 122 Orchard street, owned by Mrs. Palmer, and occupied by Mrs. Wilson. Extinguished by men from No. 4 engine-house. No loss.

Feb. 15. (Telephone.) Chimney fire in house on Madison street, owned and occupied by Wm. H. Mathews. Extinguished by men from No. 4 engine-house. No loss.

Feb. 15. (Still.) Fire in house on Acushnet avenue, occupied by M. L. Sylvia. Cause, boiling tar on stove. No loss.

Feb. 19, 1 P. M. Box 34. Fire in store No. 10 No. Second street, owned by Vial & Cook, and occupied by Jas. L. Humphrey, Jr. Cause, oil stove left in refrigerator. Loss on contents, $94.

Feb. 22. (Still.) Fire in store corner Hicks and Front streets, owned by Nazarine Bovane and occupied by Frank Graniar. Cause unknown. Loss on building, $128; insurance on building, $7000. Loss on contents, $610.27; insurance on contents, $900.

Feb. 25, 1 P. M. Fire in house No. 117 High street, occupied by several families. Cause, hot ashes in barrel. Extinguished by men from No. 5. No loss.

Feb. 27, 3 A. M. Box 56. Fire in button factory on Rivet street, owned by Potomska Mill Co. Cause unknown. Companies responding: Engines 4 and 6, Hook and Ladder 1, and Hose 1. Loss on building, $20. Loss on contents, $116.24; insurance on contents, $1500.

March 2. (Telephone.) Chimney fire in house corner Lincoln and Arnold streets, owned and occupied by E. B. Whiting. Extinguished by men from No. 4 engine-house. No loss.

March 6. (Telephone.) Chimney fire in house corner Blackmer and South Second streets. Extinguished by men from No. 6 engine-house. No loss.

March 7, 11 30 A. M. Box 26. Fire on schooner Monitor, owned by Capt. Joseph Godfrey of Pocasset. Cause, overheated stove. Companies responding: Engines 1 and 2, Hook and Ladder 1, and Hose 1. Loss, $100.

March 8, 7 30 P. M. (Telephone.) Chimney fire in house on Hawthorn street, owned and occupied by Chas. W. Plummer. Extinguished by men from No. 4 engine-house. No loss.

March 15, 7 P. M. Box 51. Fire in dwelling-house on Field street, owned and occupied by Wm. Tootle. Cause, explosion of lamp. Companies responding: Engines 4 and 6, Hook and Ladder 1, and Hose 1. Loss on building, $300; insurance on building, $700. Loss on contents, $290; insurance on contents, $300.

March 17, 6 30 P. M. Fire in building on Acushnet avenue, owned by Daniel Ricketson, and occupied by Neil Gallagher, tailor, on first floor, and by several families on the second floor. Cause, overheated stove. Companies responding: Engines 2 and 4, Hook and Ladder 1, and Hose 1. Loss on contents, $200; insurance on contents, $500.

March 18, 6 P. M. Box 58. Fire in bathing-house at Clark's Cove, owned by Union St. R. R. Co. Cause, incendiary. Companies responding: Engines 4 and 6, Hook and Ladder 1, and Hose 1. Loss. $200.

March 19, 6 A. M. (Still.) Fire in house corner of Shawmut avenue and Durfee street, owned by Martha Turner, and occupied by Peleg Bosworth and E. Davis. Cause, explosion of lamp. Loss on building, $15; insurance on building, $2500. Loss on contents, $22.85; insurance on contents, $1000.

March 19, 7 15 P. M. Box 27. Fire started in building on Purchase street, owned by estate of Wm. H. Vinal, and occupied by Moore & Diman, dealers in dry goods, spreading to buildings owned by Tilden Bros., Thomas B. Wilcox, and Joseph Roberts, and occupied by Stovey & Allen, P. H. Smith, Joseph Roberts, and Cosmos Club. Cause, defective furnace. Companies responding: Engines 2 and 4, Hook and Ladder 1, and Hose 1.

March 19, 7 30 P. M. Box 27. Second alarm for same fire. Companies responding: Engines 1 and 5, Hook and Ladder 2.

Losses:	Estate of Wm. H. Vinal,	$623.50	Insurance, $1,600
	Tilden Bros.,	896.15	" 5,000
	Thos. B. Wilcox,	3.60	" 1,000
	Joseph Roberts,	9.00	" 3,000
	Moore & Diman,	6,300.00	" 14,000
	P. H. Smith & Co.,	1,600.00	" 3,000

March 31. Box 26. Fire in dwelling-house corner of North Second and High streets, owned and occupied by Patrick Fay. Cause, overheated chimney. Companies responding: Engines 1 and 5, Hook and Ladder 1, and Hose 1. Loss on building, $6.38; insurance, $1500.

April 2, 11 25 A. M. Box 9. Fire in waste-house on Wamsutta street, owned and occupied by Wamsutta Mills Co. Cause, spontaneous combustion. Companies responding: Engines 1 and 5, Hook and Ladder 2, and Hose 2. Loss, $25.

April 4. (Telephone.) Chimney fire in house on Orchard street, owned and occupied by Edmund Grinnell. Extinguished by men from No. 4 engine-house. No loss.

April 7. (Still.) Chimney fire in house corner of Madison street and Acushnet avenue, owned and occupied by O. J. Thompson. Extinguished by men from No. 4 engine-house. No loss.

April 19, 9 P. M. Box 48. Fire in dwelling-house No. 232 South Front street, owned by Manuel J. Roderiques, and occupied by several Portuguese families. Cause, defective chimney. Companies responding: Engines 4 and 6, Hook and Ladder 1, and Hose 1. No loss.

April 22, 8 P. M. Box 35. Fire in house No. 19 So. Second street, owned by W. E. Bates, and occupied by John Carmilla. Cause, sparks from pipe. Companies responding: Engines 2 and 4, Hook and Ladder 1, and Hose 1. No loss.

April 24. Box 48. Fire in grocery store on South Water, near Grinnell street, occupied by M. D. Rogers. Cause, match dropped in sawdust. Companies responding: Engines 4 and 6, Hook and Ladder 1, and Hose 1. No loss.

April 27, 4 15 P. M. Box 34. Fire started in freight shed foot of Commercial street, owned and occupied by Old Colony R. R. Co., spreading to another building owned by Charles W. Howland, and occupied by Wm. Baylies, and to a lot of cotton belonging to Richmond & Tiffany of Providence, Wamsutta Mills Co., Bennett Mills, Howland Mills, and Potomska Mills. Cause unknown. Companies responding: Engines 2 and 4, Hook and Ladder 1, and Hose 1.

April 27, 4 15 P. M. Second alarm for same fire. Companies responding: Engines 1 and 6, Hook and Ladder 2.

Losses on building.		Insurance on building.	
Old Colony R. R.,	$2,000.00	Old Colony R. R.,	$6,000.00
Chas. W. Howland,	236.00	Chas. W. Howland,	500.00
Losses on contents.		Insurance on contents.	
Wm. Baylies,	$40.00	Wm. Baylies,	$1,000.00
Richmond & Tiffany,	720.00	Richmond & Tiffany,	1,440.00
Wamsutta Mills,	4,000.00	Wamsutta Mills,	11,000.00
Bennett Mills,	4,570.29	Bennett Mills,	9,282.59
Howland Mills,	50.64		
Potomska Mills,	1,300.00	Potomska Mills,	1,300.00

May 2. (Still.) Fire in cooper shop on Rodman street, occupied by Robert Allen. Cause, sparks from chimney. Extinguished by men from Central engine house. No loss.

May 4. Chimney fire in house corner of Union and Sixth streets. Extinguished by men from Central engine house. No loss.

May 4, 2 30 P. M. Box 27. Fire in barn rear of Market street, occupied by Lothrop Clark. Cause unknown. Companies responding: Engines 2 and 4, Hook and Ladder 1, and Hose 1. Loss, $50.

May 6, 3 30 P. M. (Still.) Chimney fire in house No. 349 Cottage street, owned and occupied by Alvin Bourne. Extinguished by men from No. 5 engine-house. No loss.

May 11. (Telephone.) Chimney fire in house corner of William and Eighth streets, owned and occupied by Dr. G. H. Dunbar. Extinguished by men from Central engine-house. No loss.

May 15. (Still.) Fire in shed rear of 59 Spring street. Cause, boys playing with matches. Extinguished by men from Central engine-house. No loss.

May 18, 8 A. M. (Still.) Fire in Parker's block, Middle street. Cause, sparks from chimney. Extinguished by men from Central engine-house. No loss.

May 27, 9 30 A. M. Box 17. Fire in building 532 and 534 Acushnet avenue, owned by S. M. Hall, and occupied by Chas. A. Hall on the first floor as a steam laundry, and by E. B. Chase & Co. on the second floor as a frame manufactory. Cause, overheated boiler. Companies responding: Engines 1 and 5, Hook and Ladder 1, and Hose 1.

Losses.		Insurance.	
Building,	$1,000.00	Building,	$1,000.00
Machinery,	485.00	Machinery,	600.00
Contents, E. A. Hall,	862.00	Contents,	1,300.00
" E. B. Chase,	787.50	"	800.00

May 27. Box 56. Fire in house on South Front street, owned by Manuel Swasey, and occupied by James Cunningham and J. Mealy. Cause unknown. Responded to by Engines 4 and 6, Hook and Ladder 2, and Hose 2. No loss.

May 28. (Still.) Chimney fire in house on Chancery street, occupied by Mrs. Susan Cobb. Extinguished by men from No. 5 engine-house. No loss.

May 29. Box 51. Fire in house No. 51 Reed street, occupied by Mrs. Edmond Borel. Cause, children playing with fire. Responded to by Engines 4 and 6, Hook and Ladder 1, and Hose 1. No loss.

May 31. (Still.) Smoke in Hatch & Co.'s express office on Union street. Responded to by men from Central engine-house. No loss.

June 3, 3 34 A. M. Box 24. Fire in slaughter-house east of Florence street, owned by P. Cornell & Co. Cause, incendiary. Companies responding: Engines 2, 5 and 7, Hook and Ladder 1, and Hose 1. Loss, $700; insurance, $700.

June 4. (Still.) Chimney fire in house on French avenue, owned and occupied by Dr. E. V. McLeod. Extinguished by men from No. 6 engine-house. No loss.

June 5, 11 45 A. M. Box 27. Fire in a hennery at Fairhaven, owned by Chas. T. Bowen. Company responding: Engine 2.

June 8, 12 27 P. M. Box 12. Fire in house on DeWolf street, occupied by Joseph Modette. Cause, hot ashes. Companies responding: Engines 1, 5 and 7, Hook and Ladder 2, and Hose 2. Loss, $100.

June 16. (Telephone.) Smoke in house No. 11 Madison street, occupied by John Long. Responded to by men from Central engine-house. No loss.

June 22. (Still.) Fire in rear of Union Boot and Shoe Co., Liberty Hall building. Cause, boys playing with matches. Extinguished by men from Central engine-house. No loss.

June 30. (Still.) Fire in Parker's block on Middle street. Cause, sparks from chimney. Extinguished by men from Central engine-house. No loss.

July 1, 9 30 A. M. (Still.) Chimney fire in house No. 45 Bedford street, owned and occupied by Geo. H. W. Tripp. Extinguished by men from No. 4 engine-house. No loss.

July 2, 3 P. M. (Still.) Fire in house corner First and Madison streets, owned by John R. Thornton, and occupied by several families. Cause, sparks from chimney. Extinguished by men from No. 4 engine-house. No loss.

July 3, 2 P. M. Box 36. Fire in tenement-house on Madison street, belonging to Henry Holcomb. Cause, fire crackers. Companies responding: Engines 2 and 4, Hook and Ladder 1, and Hose 1. No loss.

July 4, 2 15 A. M. Box 125. Fire in drug store on Weld street, occupied by F. R. Pease. Cause, fireworks. Companies responding: Engines 1 and 5, Hook and Ladder 2, and Hose 2. No loss.

July 4. (Still.) Fire on roof of Old Colony R. R. freight shed. Cause, fireworks. Extinguished by men from No. 1 engine-house. No loss.

July 4. (Still.) Fire in house on First street, near South street. Cause, fire crackers. Extinguished by men from No. 6 engine-house. No loss.

July 4. (Still.) Fire on awning to Geo. P. Gifford's restaurant on Water street. Cause, fireworks. No loss.

July 7. (Still.) Fire in steam laundry on Acushnet avenue, occupied by Excelsior Steam Laundry Co. Cause, sparks from chimney. Extinguished by men from No. 4 engine-house. No loss.

July 9, 8 A. M. (Still.) Chimney fire in house owned and occupied by John R. Thornton. Extinguished by men from Central engine-house. No loss.

July 18. (Still.) Chimney fire in house on Rivet street. Extinguished by men from No. 6 engine-house. No loss.

July 19, 10 A. M. Box 48. Fire in house No. 97 Grinnell street, occupied by Mrs. John Dahoney. Cause, oil stove explosion. Companies responding: Engines 4 and 6, Hook and Ladder 1, and Hose 1. No loss.

July 23, 10 05 A. M. Boxes 38 and 39. Fire in shed on Acushnet avenue, belonging to estate of Chas. A. Briggs. Cause unknown. Companies responding: Engines 4 and 6, Hook and Ladder 1, and Hose 1. Loss, $100.

July 31, 3 40 P. M. Box 26. Fire in building on Fish island, occupied by A. Bealkley. Cause unknown. Companies responding: Engines 1 and 2, Hook and Ladder 1, and Hose 1. No loss.

Aug. 6, 12 35 P. M. Box 57. Fire in grass in lot on County street. Caused by boys. Companies responding: Engines 4 and 6, Hook and Ladder 1, and Hose 1. No loss.

Aug. 6. Box 29. Fire in barn corner Clinton and Chancery streets, occupied by James Burns. Cause, children playing with torches. Companies responding: Engines 4 and 5, Hook and Ladder 1, and Hose 1. No loss.

Aug. 8, 4 55 A. M. Box 125. Fire in woodshed and yard rear of 931 Purchase street, owned and occupied by Geo. Spencer, spreading to buildings owned by Union Street R. R. and Thomas Watson. Cause, overheated boiler. Companies responding: Engines 1 and 5, Hook and Ladder 2, and Hose 2.

Aug. 8, 5 A. M. Boxes 61 and 125. Second alarm for same fire. Companies responding: Engines 2, 4 and 7, Hook and Ladder 1, and Hose 1.

Losses:	George Spencer,	$850.00	Insurance, $1,600.00
	Thos. Watson,	66.91	" 800.00

Aug. 8, 9 A. M. Box 23. Fire in house on Rockdale avenue, owned and occupied by John A. Sawyer. Cause, sparks from chimney. Companies responding: Engines 2 and 5, Hook and Ladder 1, and Hose 1. No loss.

Aug. 8, 12 M. Box 17. Fire in house rear of 546 Acushnet avenue, occupied by Baptiste Lefevre. Caused by candles round the body of a dead child falling down, and setting fire to the drapery. Companies responding: Engines 1 and 5, Hook and Ladder 1, and Hose 1. No loss.

Aug. 16, 2 30 A. M. (Still.) Fire in ice houses at Plainville, owned by Allen Smith, Jr. Cause, incendiary. Responded to by Hancock Co. No. 9. Loss on building, $1070; insurance on building, $1200. Loss on contents, $812.76; insurance on contents, $2000.

Aug. 19. Box 76. Fire in City Manufacturing Co. mills, owned and occupied by City Mfg. Co. Cause, overheated speeders. Companies responding: Engines 2, 4, 5 and 6, Hook and Ladder 1, and Hose 1. No loss.

Aug. 27, 6 P. M. (Still.) Fire in shed on Acushnet avenue near Campbell street, owned and occupied by Old Colony R. R. Cause, boys. No loss.

Sept. 9. (Telephone.) Fire in Peirce's furnishing store, corner of Purchase and Kempton streets. Cause, sparks from electric light. Extinguished by men from Hose 1. No loss.

Sept. 10. (Still.) Fire in storage room on Union street, occupied by Charles Finni. Extinguished by men from Central engine-house. No loss.

Sept. 12. (Still.) Fire in shop on Pleasant street, occupied by the Lynn dye house. Cause, trimming on ceiling too near light. Extinguished by men from Hose 1. No loss.

Sept. 14, 10 P. M. (Still.) Fire in grocery store corner of Hicks street and Acushnet avenue, occupied by Josephine O'Neil. Cause, falling of hanging lamp. Extinguished by men from Weld street engine-house. No loss.

Sept. 23, 8 15 P. M. Box 46. Fire in Greene & Wood's factory on Leonard street, owned and occupied by the Greene & Wood Mfg. Co. Cause, spontaneous. Companies responding: Engines 4 and 6, Hook and Ladder 1, and Hose 1. Loss, $1,491.44; insurance, $69,864.54.

Sept. 29. (Still.) Fire in planing mill on Bowditch street. Extinguished by men from Weld street engine-house. No loss.

Oct. 4. Box 26. Fire in portable hoisting engine, owned by T. S. Corson. Cause, incendiary. Companies responding: Engines 1 and 2, Hook and Ladder 1, and Hose 1. No loss.

Oct. 9, 9 A. M. Box 39. Fire in building on Acushnet avenue, owned by P. Cornell & Co., and occupied by Andrew H. Donaghy as a steam laundry, Manuel E. Lemos, barber, and Mrs. David J. Shepherd and Mrs. May J. Pope, tenements. Cause, overheated drying room. Companies responding: Engines 4 and 6, Hook and Ladder 1, and Hose 1.

Oct. 9, 9 10 A. M. Box 39. Second alarm for same fire. Companies responding: Engines 2 and 5, Hook and Ladder 2. Losses on building, $2800; insurance on building, $4000. Loss on contents, $1400; insurance on contents, $1300.

Oct. 28, 9 P. M. (Still.) Fire in Sheridan House on Second street, occupied by Jacob Veith. Extinguished by men from Central house. No loss.

Nov. 2, 8 55 P. M. Box 27. Fire in Folsom's block on Purchase and Middle streets, owned by S. Folsom, and occupied by S. Folsom and others. Cause, defective stove pipe. Companies responding: Engines 2 and 4, Hook and Ladder 1, and Hose 1. Loss, $125; insurance, $6000.

Nov. 9, 9 30 P. M. Box 35. Fire in house 271 Acushnet avenue, owned by F. R. Hadley, and occupied by David H. Morrisey. Cause unknown. At this fire Mrs. David H. Morrisey was suffocated by the smoke. Companies responding: Engines 2 and 4, Hook and Ladder 1, and Hose 1. Loss, $255; insurance, $3000.

Nov. 10, 5 A. M. Box 71. Fire in Mt. Washington Glass Works. Cause unknown. Companies responding: Engines 2, 4 and 6, Hook and Ladder 1 and 3, and Hose 1. Loss, $300; insurance, $80,000.

Nov. 12, 3 30 P. M. Box 27. Fire in Wright's drug store, corner of Purchase and William streets, owned by Chas. S. Cummings and others, and occupied by Wright Drug Co. and others. Cause, explosion of benzine. Companies responding: Engines 2 and 4, Hook and Ladder 1, and Hose 1. Loss on building, $611; insurance on building $23,000. Loss on contents, $2179.25; insurance on contents, $15,500.

Nov. 17, 5 P. M. (Telephone.) Fire in dwelling-house corner of Austin and Wilson streets, occupied by Daniel Sullivan. Extinguished by men from No. 7 engine-house. No loss.

Nov. 17, 6 P. M. (Telephone.) Chimney fire in house No. 40 Middle street. Extinguished by men from Central engine-house. No loss.

Nov. 19. (Still.) Fire in house corner of Acushnet avenue and Hillman street, owned by Capt. F. L. Briggs, and occupied by Chas. N. Smith and James S. Hathaway. Cause, chimney. Extinguished by men from No. 1 engine-house. No loss.

Nov. 21, 11 A. M. Box 26. Fire in building No. 9 Rodman street, owned by R. Beetle and D. W. Kempton, and occupied by Henry W. Mason and others. Cause, experimenting with petroleum gas. Companies responding. Engines 1, 2 and 5, Hook and Ladder 1, and Hose 1. Loss on building, $127.51; insurance on building, $500. Loss on contents, $296.31; insurance on contents, $2500.

Nov. 25, 6 10 P. M. (Still.) Chimney fire in dwelling-house No. 506 Purchase street, belonging to estate of B. F. Hathaway, and occupied by Mrs. B. F. Hathaway. Extinguished by men from No. 1 engine-house. No loss.

Nov. 28, 10 30. Box 123. Fire in dwelling-house on Oneko lane, owned by F. W. Oesting, and occupied by Thedor Kobza. Companies responding: Engines 1 and 7, Hook and Ladder 2, and Hose 2. Loss, $40; insurance, $600.

Nov. 30, 4 30 P. M. Box 6. Fire in dwelling-house corner Hazard and Pleasant streets, owned by Daniel B. Murphy. Cause, kerosene stove overheated. Companies responding: Engines 1 and 7, Hook and Ladder 2, and Hose 2. Loss, $125; insurance, $3000.

Dec. 1, 4 P. M. Box 26. Fire in paint shop No. 41 Middle street, occupied by W. F. Sturtevant. Cause, hot chimney. Companies responding: Engines 1, 2 and 5, Hook and Ladder 1, and Hose 1. No loss.

Dec. 1. (Still.) Fire in barber shop No. 81 William street, owned by B. H. Waite, and occupied by J. J. Bouchard. Cause, carelessness with cigar stub. Extinguished by men from Central engine-house. Loss on building, $10; no insurance. Loss on contents, $54.50; insurance, $400.

Dec. 15, 5 P. M. Box 123. Fire in woods on Nash road, owned by Thomas N. Nash. Companies responding: Engine 1 and Hose 2. Engine 7 and Hook and Ladder 2 were ordered back by telephone.

Dec. 26, 9 A. M. (Still.) Chimney fire in house No. 487 So. Water street, owned and occupied by Simon Simanski. Extinguished by men from No. 4 engine-house. No loss.

Dec. 29, 9 30 A. M. (Still.) Chimney fire in house No. 75 Madison street, owned by Mrs. Susan Grinnell, and occupied by Mrs. Sarah E. Gifford. Extinguished by men from No. 4 engine-house. No loss.

Dec. 30, 1 P. M. (Still.) Fire in bakery on Purchase street, owned by Wamsutta Mills Co., and occupied by David Sharples. Cause, explosion of lamp. Extinguished by men from No. 1 engine-house. No loss.

The following is the amount of losses by fire in this city for the past fifteen years, together with the amount of insurance on same:

Years.	Loss.	Insurance.
1877,	$26,063.66	$21,528.36
1878,	28,154.46	66,025.00
1879,	9,163.16	54,950.00
1880,	7,609.13	49,450.00
1881,	26,624.96	86,979.00
1882,	23,169.64	692,950.00
1883,	17,398.14	77,450.00
1884,	134,729.82	310,950.00
1885,	6,982.41	148,025.00
1886,	26,786.03	1,108,800.00
1887,	45,141.50	708,150.00
1888,	32,881.87	125,927.00
1889,	42,285.71	182,772.00
1890,	18,145.02	71,300.00
1891,	43,032.65	297,487.13

The record by months is shown by the following table:

	No. of Fires.	Still Alarms.	Bell Alarms.	Loss.	Insurance.
January,	10	5	5	$1,454.55	$3,300.00
February,	9	5	4	1,330.51	9,900.00
March,	10	5	5	10,566.48	34,100.00
April,	8	2	6	12,941.93	30,522.59
May,	12	8	4	3,134.50	3,700.00
June,	7	4	3	800.00	700.00
July,	13	7	6	100.00	
August,	11	2	9	2,799.67	5,600.00
September,	6	5	1	1,491.44	69,864.54
October,	5	1	4	4,200.00	5,300.00
November,	11	4	7	4,059.07	134,100.00
December,	6	4	2	64.50	400.00
	109	52	57	$43,032.65	$297,487.13

Fire Alarm Telegraph, 1891.

SUPERINTENDENT.

FREDERICK MACY, Chief Engineer.

ASSISTANT SUPERINTENDENT.

DANIEL D. BRIGGS.

Residence, Engine-house, N. W. cor. Bedford and South Sixth streets.
Office, City Hall.

LOCATION OF SIGNAL BOXES.

No. 3.	Lund's Corner.
4.	Acushnet Heights, near reservoir.
123.	Acushnet avenue, near Coffin avenue.
125.	Corner Bowditch and Weld streets.
126.	Cedar Grove and North Front streets.
5.	Linden and Ashland streets.
6.	Hazard and State streets.
7.	Purchase and Franklin streets.
8.	County and Pearl streets.
9.	Wamsutta street and Acushnet avenue.
12.	Shawmut avenue and Durfee street.
13.	Cedar and Locust streets.
14.	Purchase and Willis streets.
15.	Smith and Cedar streets.
16.	County and Hillman streets.
17.	Maxfield street and Acushnet avenue.
18.	Purchase and North streets.
21.	North and Water streets.
23.	Kempton, west of Florence street.
24.	Kempton and Cedar streets.
25.	County and Kempton streets.
26.	Water and Middle streets.
27.	Purchase street and Mechanics lane.

28. Court and Cedar streets.
29. Arnold and Ash streets.
32. Union and Eighth streets.
34. Union and Water streets.
35. Fourth and School streets.
36. Walnut and Water streets.
37. Madison and Orchard streets.
38. Bedford and Sixth streets.
39. Acushnet avenue and Cannon street.
41. Hawthorn and Page streets.
45. Allen and Bonney streets.
46. South Water and Leonard streets.
47. Junction Sixth and County streets.
48. Water and South streets.
51. Dartmouth and Rockland streets.
52. Fourth street, head of Potomska.
56. South Water and Rivet streets.
57. Mosher and County streets.
58. South Water and Cove streets.
*61. Union Street Railway Horse Car Stables.
*62. Grinnell Mill.
*63. Wamsutta Mills.
*64. New Bedford Manufacturing Co.
*65. Hathaway, Soule & Harrington.
*67. New Bedford Cordage Factory.
*68. New Bedford Copper Works.
*71. Pairpoint Manufacturing Co.
*72. George Delano's Sons & Co.'s Works.
*73. Potomska Mills.
*74. Acushnet Mills.
*75. Morse Twist Drill Co.
*76. City Manufacturing Co.
*81. Howland Mills.
*82. Hathaway Mill.
*85. New Bedford Gas Works.
*91. Bennett Mills.
*92. New Bedford Casket Co.

*Private boxes, only to be rung for fire on the premises.

LIST OF FIRE ALARM KEYS FOR 1891.

1 S. C. Hart.
2 A. C. Tripp.
3 David Moncrief.
4 Engine house No. 1.
5 George A. Bourne.
6 Andrew M. Swift.
7 Silas Dammon.
8 Engine-house No. 5.
9 Chief Engineer's office.
10 H. H. Fisher.
11 Store N. W. cor. Kempton and Cedar.
12 Seth Codding.
13 Returned to Chief Engineer.
14 Engine-house No. 2.
15 County jail office.
16 J. D. Thompson.
17 Charles Taber.
18 Wm. H. Sherman's stable.
19 Hart & Akin.
20 Henry Taber.
21 Engine-house No. 4.
22 Thomas B. Tripp.
23 Greene & Wood Mfg. Co.
24 Cornell's stable.
25 Delano's oil works.
26 B. Dawson.
27 William Hindle.
28 Store N. W. cor. Cedar and Smith.
29 Samuel C. Moore.
30 Edwin Dews.
31 J. B. Ashley.
32 James E. Blake.
33 Chief Engineer's office.
34 Police.
35 Store N. W. cor. Arnold and Ash.
36 Jireh Swift.
37 J. L. Paddock.
38 Mrs. Joseph Reed.
39 E. Anthony & Sons.
40 Mrs. C. M. Pierce, Jr.
41 Stable, Fourth and Spring.
42 Mercury office.
43 Store cor. Grinnell and Sixth.
44 Store S. W. cor. Water and South.
45 A. L. Sylvia.
46 Robinson's oil works.
47 N. W. cor. Acushnet avenue and Maxfield street.
48 Denison Bros.' N. Mill.
49 Police.
50 "
51 Police.
52 "
53 "
54 "
55 "
56 Chief Engineer's office.
57 House N. W. cor. Water and Rivet.
58 Henry H. Fisher.
59 J. P. Kennedy.
60 Police.
61 Edward Hughes, cor. Acushnet and Coffin avenues.
62 Police.
63 Horace G. Howland.
64 William G. Howland.
65 New Bedford Gas Co.
66 Hastings' coal yard.
67 Chief Engineer's office.
68 L. T. Parlow.
69 P. B. Sherman.
70 A. A. Wood.
71 Police.
72 Frederick Macy.
73 George H. Bliss.
74 Chief Engineer's office.
75 George L. Brownell.
76 James M. Tripp.
77 Potomska Mills.
78 Police.
79 "
80 "
81 "
82 Rufus A. Soule.
83 William H. Sherman.
84 Police.
85 "
86 Wamsutta Mills gate office.
87 Adoniram Negus.
88 Chief Engineer's office.
89 Wamsutta Club House.
90 Police.
91 "
92 "
93 "
94 "
95 "
96 "
97 "
98 "
99 "
100 "
101 "
102 "
103 "

104 Police.
105 "
106 "
107 "
108 "
109 "
110 "
111 "
112 "
113 "
114 "
115 "
116 "
117 "
118 "
119 "
120 D. D. Briggs.
121 Police.
122 E. C. Milliken.
123 Marcus W. Taber.
124 Rodolphus Beetle.
125 Soap factory, cor. Water and Middle streets.
126 Henry T. Wood's residence.
127 Coal pockets, foot of Walnut street.
128 Snell's bakery.
129 A. H. Rhodes.
130 R. S. Lawton.
131 George A. Taylor.
132 L. G. Hewins, Jr.
133 C. S. Paisler.
134 George W. Hillman.
135 Hathaway & Soule's factory.
136 Henry Howard.
137 Mt. Washington Glass Co.
138 A. M. Pierce.
139 F. A. Soule's mill.
140 S. P. Richmond's bakery.
141 E. H. Martin.
142 Police.
143 Geo. A. Cobb.
144 A. Harrington.
145 E. C. Taber.
146 Engine No. 9.
147 Hersom's soap factory.
148 Police.
149 "
150 "
151 "
152 "
153 "
154 "
155 "
156 Wm. Lowe's residence.
157 James Wilson.
158 No. 6 engine-house.
159 George W. Parker.
160 House, S. W. cor. Acushnet avenue and Maxfield street.
161 D. Bromley.
162 Thomas Donaghy.
163 William A. Pease.
164 Police.
165 Henry W. Kenyon.
166 Police.
167 "
168 W. F. Wheaton.
169 T. B. Rowe.
170 Store cor. Allen and Dartmouth streets.
171 George F. Luscomb.
172 Thomas Pelan.
173 William Osgood.
174 Roland Ashley.
175 John H. Lowe.
176 William J. Marr.
177 John Thompson.
178 John Lincoln.
179 L. T. Terry.
180 J. W. Lavers.
181 Chief Engineer's house.
182 Horse car stable, Purchase street.
183 A. F. Brownell.
184 James Davis' store.
185 D. A. Snell's house.
186 Abram Francis.
187 O. G. Brownell.
188 John Wing.
189 Engineer of steamer No. 6.
190 Chief Engineer's office.
191 T. M. Hart.
192 Jonathan Bourne's house.
193 House 510 Acushnet avenue.
194 Mt. Washington Glass Co.
195 Acushnet Mills.
196 Grinnell Mills.
197 " "
198 Pairpoint Mfg. Co.
199 Grinnell Mills.
200 N. B. Cordage Co.
201 Wamsutta Mills.
202 N. B. Cordage Co.
203 " "
204 " "
205 " "
206 Acushnet Mills.
207 " "
208 Wamsutta Mills.
209 " "
210 " "
211 " "
212 Grinnell Mill.

213 N. B. Mfg. Co.
214 Hathaway & Soule.
215 Potomska Mills.
216 Hathaway & Soule.
217 Potomska Mills.
218 " "
219 " "
220 N. B. Mfg. Co.
221 " "
222 " "
223 " "
224 Hathaway & Soule.
225 " "
226 M. T. D. & Machine Co.
227 " "
228 " "
229 " "
230 N. B. Copper Co.
231 " "
232 " "
233 Selmar Eggers.
234 N. B. Copper Co.
235 Delano's oil works.
236 House cor. Hazard and State streets.
237 Pierce & Bushnell Mfg. Co.
238 D. D. Briggs.
239 George W. Hillman.
240 James H. Sherman.
241 Delano's oil works.
242 " "
243 " "
244 Police.
245 "
246 "
247 "
248 "
249 "
250 "
251 John Ward.
252 Louis H. Richardson.
253 N. B. Gas Co.
254 " "
255 " "
256 " "
257 " "
258 " "
259 " "
260 W. K. Wagner.
261 R. S. Taber.
262 Pairpoint Mfg. Co.
263 George B. Wheeler.
264 Mrs. Leonard.
265 F. A. Sowle.
266 C. S. Kelley.
267 Horse car stable, Purchase st.
268 Police.
269 Police.
270 "
271 John Lowe's store.
272 J. M. Lyons.
273 John Lowe.
274 Henry L. Dunham.
275 William F. West.
276 Benjamin H. Reed.
277 C. K. Turner.
278 Horse car stable, Purchase st.
279 N. B. & N. Y. Steamship Co.
280 Charles S. Randall.
281 Police.
282 "
283 "
284 Smith Brothers.
285 I. H. Shurtleff.
286 Gate tender's lodge, Wamsutta street.
287 C. O. Andrews.
288 Orphans' Home.
289 J. P. Taylor's residence.
290 Rural Cemetery.
291 George L. Brownell.
292 A. H. Covel.
293 Collamore.
294 Engineer No. 2.
295 O. F. Bly.
296 L. A. Plummer.
297 Dr. Knowles.
298 Edward D. Mandell.
299 F. S. Potter.
300 Loum Snow.
301 Hook and Ladder No. 2.
302 House 83 Dartmouth street.
303 Anthony Hurd.
304 Greene & Wood Mfg. Co.
305 John Smith.
306 William H. Washburn.
307 Horse car stable, Weld street.
308 Bowker & Tripp.
309 Walter Clifford's residence.
310 King Mfg. Co.
311 Police.
312 "
313 "
314 "
315 "
316 "
317 Greenwood House.
318 Grinnell's foundry.
319 Opera House office.
320 Brayton's wood yard.
321 Dr. J. C. Shaw's residence.
322 Police.
323 Janitor Opera House.
324 Engineer of steamer No. 4.

325 George Crapo.
326 S. C. Lowe's house.
327 Charles Taber.
328 J. W. Howland.
329 J. H. Platt.
330 H. A. Blackmer.
331 A. B. Kimball.
332 John O'Brien.
333 Mrs. Farley.
334 Levi W. Brawley.
335 Joseph Fredricks.
336 Captain J. Sherman.
337 W. P. Booth.
338 F. Russell.
339 Police.
340 Howland Mills.
341 " "
342 " "
343 " "
344 City Mfg. Co.
345 " "
346 " "
347 " "
348 John Duff.
349 T. M. Stetson's residence.
350 Police.
351 "
350 C. Gas Co.
351 C. "
352 Bennett Mill.
353 " "
352 D. Police.
353 D. "
354 N. B. Casket Co.
355 " "
356 Hathaway Mills.
357 " "
358 Morgan Rotch, residence.
359 Engine No. 7.
360 Blossom Bros.' planing mill.
361 William C. Taber, Jr., res
362 Howland Mills village.
363 " " "
364 " " "
365 Gas Co.
366 Gas Co.
367 N. B. Casket Co.
368 " "
369 Bennett Mill.
370 Hathaway Mills.
371 " "
372 Police.
373 "
374 "
375 "
376 "
377 "
378 S. A. Brownell.
379 L. Bartell.
380 E. C. Gardiner.
381 John A. Gomley.
382 Peter F. Sullivan.
383 Wm. H. Rankin.
384 Engineer Steamer No. 1.
385 Police.
386 "
387 "
388 "
389 "
390 "
391 "
392 "
393 "
394 "
395 "
396 "
397 Clark Underwood.
398 Edison light station.
399 A. G. Howland.
400 J. J. Howland.
401 Alfred R. Bucklin.
402 Engineer Steamer No. 7.
403 Department lineman.
404 E. E. Enos.
405 Office.
406 "
407 Bunker's drug store.
408 E. E. Enos' "
409 Chas. H. Brownell.
410 E. W. Hervey.

Location of Reservoirs.

Durfee street, southeast corner of Shawmut avenue.
Linden street, northeast corner of Ashland.
Franklin street, southwest corner of State.
Willis street, northeast corner of State.
Campbell street, west side of Purchase.
Smith street, southeast corner of Cypress.
Pleasant street, between Maxfield and Sycamore.
County street, southeast corner of Maxfield.
Pleasant street, southwest corner of North.
Chestnut street, between Mill and North.
Mill street, southwest corner of Purchase.
Kempton street, between Cypress and Cedar.
High street, near northeast corner of Foster.
Middle street, near southeast corner of Purchase.
Middle street, west of grammar school.
County street, front of M. E. church.
North Second street, northwest corner of William.
City Hall square, west of hall.
Court street, near head of Orchard.
Union street, southwest corner of County.
Union street, southeast corner of Fourth.
School street, northwest corner of Fourth.
South Second street, northwest corner of Walnut.
South Sixth street, northwest corner of Walnut.
Orchard street, east side, below Hawthorn.
Russell street, between County and South Sixth.
Acushnet avenue, southeast corner of Cannon.
Bedford street, southeast corner of Fifth.
South Sixth street, southwest corner of Wing.
Acushnet avenue, southeast corner of Grinnell.
Washington street, northeast corner of Crapo.

Location of Hydrants.

	Pressure in lbs.
Acushnet avenue, west side, 267 feet north of Tarkiln Hill road. Post.	53
Acushnet avenue, southwest corner of Tarkiln Hill road. Post.	55
Acushnet avenue, west side, south of Tarkiln Hill road 500 feet. Post.	54
Acushnet avenue, west side, south of Tarkiln Hill road 997 feet. Post.	53
Acushnet avenue, west side, north of North Belleville road 600 feet. Post.	53
Acushnet avenue, west side, north of North Belleville road 6 feet. Post.	54
Acushnet avenue, west side, south of North Belleville road 601 feet. Post.	55
Acushnet avenue, west side, north of Shaw 610 feet. Post.	51
Acushnet avenue, northwest corner of Shaw. Post.	47
Acushnet avenue, west side, north of South Belleville road 603½ feet. Post.	45
Acushnet avenue, west side, head of South Belleville road. Post.	42
Acushnet avenue, northwest corner of Nash road. Post.	40
Acushnet avenue, northwest corner of Hathaway avenue. Post.	40
Acushnet avenue, northwest corner of Davis. Post.	41
Acushnet avenue, southwest corner of Phillips avenue. Post.	39
Acushnet avenue, southwest corner of Deane. Post.	48
Acushnet avenue, west side, north of Sawyer 574½ feet. Post.	53
Acushnet avenue, southwest corner of Coggeshall. Post.	56
Acushnet avenue, southwest corner of Cedar Grove. Post.	54
Acushnet avenue, west side, south of Logan 335 feet. Post.	60
Acushnet avenue, west side, north of Wamsutta 514 feet. Double.	62
Acushnet avenue, west side, north of Wamsutta 372 feet. Post.	60
Acushnet avenue, west side, south of Wamsutta 255 feet.	63
Acushnet avenue, west side, at end of Wall street. Post.	62
Acushnet avenue, southeast corner of Pope.	64
Acushnet avenue, northwest corner of Willis.	61

Acushnet avenue, west side, south of Campbell 179 feet. 59
Acushnet avenue, northwest corner of Maxfield. 57
Acushnet avenue, northwest corner of Kempton. 47
Acushnet avenue, northeast corner of Elm. 47
Acushnet avenue, northwest corner of School. Post. 51
Acushnet avenue, northwest corner of Madison. Post. 57
Acushnet avenue, northwest corner of Russell. Post. 58
Acushnet avenue, northwest corner of Bedford. Post. 60
Acushnet avenue, west side, opposite Howland. 61
Acushnet avenue, northwest corner of Potomska. Post. 50
Acushnet avenue, west side, north of Rivet 158 feet. Post. 59
Acushnet avenue, southwest corner of Blackmer. 60
Allen street, southeast corner of Bonney. 46
Allen street, northwest corner of Ward. 41
Allen street, north side, east of Page 159 feet. 38
Arch street, southwest corner of Union. 24
Arnold street, south side, west of Orchard 96 feet. Post. 22
Arnold street, southwest corner of Chancery. 33
Arnold street, southeast corner of Atlantic. 32
Arnold street, south side, 15 feet west of James. Post. 24
Ash street, northwest corner of Middle. 27
Ash street, southwest corner of Morgan. Double. 25
Ash street, northwest corner of Arnold. 32
Ash street, northwest corner of Maple. 34
Ash street, northwest corner of Bedford. Post. 37
Ashland street, west side, head of Linden. 11
Atlantic street, west side, 186 feet south of Arnold. Post. 29
Atlantic street, west side, 390 feet north of Arnold. Post. 30
Austin street, southeast corner of State. Post. 42
Austin street, southwest corner of Purchase. Post. 56
Austin street, southeast corner of Cedar. Post. 19
Austin street, south side, on west line of Wilson. Post. 20
Austin street, southwest corner of Ashland. Post. 15
Austin street, southeast corner of Shawmut avenue. Post. 14
Babbitt street, south side, 207 feet west of Dartmouth. Post. . . 42
Babbitt street, south side, 540 feet west of Dartmouth. Post. . . 38
Bedford street, southwest corner of Fifth. Post. 55
Bedford street, southeast corner of County. 47

Bedford street, southeast corner of Orchard. 37
Beach street, northwest corner of Kempton. Post. 18
Beetle street, south side, 96 feet east of Acushnet avenue. Post. . 57
Blackmer street, south side, east of Front 575 feet. Post. 63
Bolton road, west side, south of Rivet 1027 feet. Post. 59
Bolton road, northwest corner Poplar road. Post. 59
Bonney street, northwest corner of Grinnell. 51
Bonney street, northwest corner of Rockland. Post. 54
Bonney street, west side, 259 feet north of Rivet. Post. 61
Borden street, southwest corner of Bay. Post. 42
Bowditch street, southwest corner of Weld. Post. 56
Bowditch street, west side, 313 feet south of Cedar Grove. Post. . 55
Bowditch street, west side, north of Cedar Grove 244 feet. Post. . 55
Bridge avenue, north side, 44 feet west of draw. 62
Bridge avenue, south side, 11 feet west of draw. 62
Brownell street, west side, 294 feet south of Union. Post. 22
Bullock street, southwest corner of Trinity. Post. 14
Campbell street, south side, 163 feet east of County. 28
Campbell street, south side, 216 feet west of County. Post. . . . 25
Campbell street, southwest corner of Cypress. Post. 19
Campbell street, south side, east of Emerson 205 feet. 18
Cannon street, south side, east of Second 164 feet. Post. 63
Cedar street, northwest corner of Elm. Double. 25
Cedar street, southwest corner of Kempton. 26
Cedar street, west side, north of Mill 75 feet. 23
Cedar street, southwest corner of Hillman. 23
Cedar street, northwest corner of Sycamore. 21
Cedar street, southwest corner of Campbell. 18
Cedar street, southwest corner of Parker. 19
Cedar Grove street, southeast corner of Front. Post. 60
Cedar Grove street, southeast corner of Howard. Post. 58
Cedar Grove street, south side, 383 feet west of Bowditch. Post. . 57
Cedar Grove street, northwest corner of Purchase. Post. 56
Cedar Grove street, southwest corner of County. Post. 43
Cedar Grove street, south side, 184 feet west of County. Post. . . 40
Centre street, south side, east of Water 85 feet. 56
Chancery street, west side, north of Arnold 406 feet. Post. . . . 33
Chancery street, southwest corner of Elm. Post. 28

Chancery street, west side, south of Parker 176 feet. Post. 24
Chancery street, west side, 263 feet north of Parker. Post. 16
Cherry street, southeast corner of Seventh. 38
Chestnut street, southwest corner of North. 19
Chestnut street, west side, north of Campbell 96 feet. 22
Clark street, southwest corner of State. 47
Clark street, south side, 170 feet west of County. Post. 40
Clinton street, south side, east of Orchard 125 feet. 26
Clinton street, south side, west of Ash 242½ feet. Post. 44
Coffin avenue, southwest corner North Purchase. Post. 40
Coffin avenue, south side, opposite Oneko lane. Post. 40
Coffin avenue, southeast corner of Bowditch. Post. 40
Coffin avenue, southeast corner of Front. Post. 50
Coffin street, north side, 262 feet east of Water. Post. 62
Coggeshall street, south side, 227 feet east of Mitchell. Post. . . 64
Coggeshall street, southeast corner of Rock. Post. 62
Coggeshall street, southwest corner of Front. Post. 61
Coggeshall street, southwest corner of Purchase. Post. 53
Coggeshall street, southeast corner of County. Post. 43
Collins street, south side, 72 feet west of Glover. Post. 12
Columbia street, south side, 68 feet north of Clay. Post. 46
Commercial street, north side, east of Front 82 feet. Post. 62
Cottage road, south side, 435 feet west of Bolton road. Post. . . . 55
Cottage street, southwest corner of Bay. Post. 43
Cottage street, northwest corner of Allen. 42
Cottage street, northwest corner of Bedford. 37
Cottage street, northwest corner of Hawthorn. 31
Cottage street, southwest corner of Arnold. 23
Cottage street, southwest corner of Union. 22
Cottage street, southwest corner of Kempton. Post. 22
Cottage street, northwest corner of Hillman. 20
Cottage street, northwest corner of Sycamore. 20
Cottage street, west side, 237 feet north of Locust. Post. 20
County street, west side, 200 feet north of Coggeshall. Post. . . . 44
County street, southeast corner of Penniman. Post. 44
County street, west side, 234½ feet south of Clark. Post. 43
County street, west side, 115 feet south of Weld. Post. 42
County street, southwest corner of Austin. Post. 33

County street, northwest corner of Locust. Post. 24
County street, northwest corner of Parker. 23
County street, southwest corner of Smith. Post. 30
County street, southwest corner of Maxfield. 25
County street, southwest corner of North. 21
County street, southwest corner of Middle. Double. 22
County street, southwest corner of Morgan. Post. 22
County street, northwest corner of Union. 24
County street, west side, head of School. 27
County street, northwest corner of Madison. 32
County street, southwest corner of Hawthorn. 36
County street, northwest corner of Allen. 49
County street, southwest corner of Grinnell. Post. 61
County street, northwest corner of South. Post. 62
County street, northwest corner of Windsor. Post. 57
County street, west side, 71 feet north of Division. Post. 54
County street, northwest corner of Cove road. Post. 62
Court street, southwest corner of Orchard. 22
Court street, south side, opposite Cedar. 23
Court street, northeast corner of Ash. Post. 20
Court street, south side, opposite Emerson. 26
Court street, south side, west from Park 304 feet. 32
Court street, south side, head of Jenney. Post. 23
Court street, south side, east of Reed 300 feet. Post. 22
Cove street, south side, east of Water 487 feet. 62
Cove street, south side, west of Water 334½ feet. Post. 60
Cove street, southeast corner of County. Post. 72
Crapo street, west side, south of Washington 343 feet. 60
Crapo street, west side, south of Rockland 225 feet. 63
Crapo street, west side, 160 feet south of Thompson. Post. . . . 58
Dartmouth street, east side, southwest of Orchard 110 feet. 47
Dartmouth street, east side, 125 feet south of Hickory. Post. . . 47
Dartmouth street, east side, 260 feet south of Rockland. Post. . . 45
Dartmouth street, east side, 99 feet south of Thompson. Post. . . 44
Dartmouth street, southeast corner of Larch. Post. 42
Dean street, southeast corner of Front. Post. 50
Dean street, southwest corner of Rock. Post. 62
Delano street, southwest corner of Water. Post. 57

Delano street, southeast corner of Acushnet avenue. Post. 57
Division street, southeast corner of Second. Post. 61
Division street, south side, 527 feet west of County. Post. 62
Division street, south side, east of Crapo 6 feet. Post. 58
Durfee street, southwest corner of Cedar. Post. 15
Durfee street, southwest corner of Bullock avenue. Post. 17
Durfee street, southwest corner of Shawmut avenue. Post. . . . 12
Elm street, southwest corner of Pleasant. 38
Elm street, southwest corner of Summer. 18
Elm street, south side, 43.5 feet west of Florence. Post. 26
Elm street, southeast corner of Palmer. Post. 14
Emerson street, west side, 174 feet north of Arnold. Post. 29
Emerson street, southwest corner of Willis. 19
Emerson street, southwest corner of Parker. 18
Fifth street, southwest corner of School. Post. 45
Fifth street, west side, south of Madison 245 feet. 50
Fifth street, northwest corner of Wing. Post. 59
Fifth street, northwest corner of Grinnell. 61
First street, southwest corner of Spring. 58
First street, west side, south of School 109 feet. 57
First street, west side, south of Howland 185 feet. 65
First street, west side, south of South 255 feet. 63
Florence street, west side, north of North 180 feet. Post. 26
Florence street, northwest corner of Mill. Post. 24
Florence street, west side, 199.6 feet south of Kempton. Post. . . 27
Florence street, southwest corner of Morgan. Post. 29
Forest street, south side, west of County 90 feet. 53
Foster street, southwest corner of Maxfield. 37
Foster street, northwest corner of High. 33
Fourth street, west side, north of School 106 feet. 46
Fourth street, west side, south of Madison 210 feet. 54
Fourth street, east side, opposite Washington. Post. 57
Fourth street, northwest corner of Rockland. 62
Fourth street, west side, south of Potomska 61 feet. Post. 58
Franklin street, southwest corner of Pleasant. 43
Franklin street, southwest corner of State. Post. 38
French avenue, west side, south of Cove road 14 feet. 60
Front street, west side, south of Washburn 319 feet. 62

Front street, west side, south of Logan 383 feet. Post. 63
Front street, southeast corner of Wamsutta. Post. 65
Front street, southwest corner of Hazard's lane. 61
Front street, southwest corner of Centre. 61
Front street, west side, south of Commercial 86 feet. 63
Front street, northwest corner of lane head of Merrill's wharf. . . 65
Front street, west side, south of Howland 268 feet. Post. 61
Front street, southwest corner of Grinnell. Post. 62
Front street, west side, south of South 330 feet. Post. 62
Front street, west side, north of Delano 191 feet. Post. 62
Fruit street, south side, east of Hemlock 126.5 feet. Post. 53
Fruit street, south side, 25 feet west of Mulberry. Post. 46
Gifford street, south side, 700 feet east of Water. Post. 66
Gifford street, south side, 274 feet east of Water. Post. 65
Grape street, south side, west of Lewis 131 feet. Post. 36
Grape street, south side, west of Lewis 517½ feet. Post. 34
Griffin street, southwest corner of Second. 62
Grinnell street, south side, west of Acushnet avenue 76 feet. . . . 60
Grinnell street, south side, east of Crapo 103 feet. 58
Grinnell street, southwest corner of Orchard. Post. 50
Grove street, southwest corner of Anthony. 32
Harmony street, southwest corner of Social. Post. 59
Harrison street, southwest corner of Hickory. Post. 48
Hawthorn street, southeast corner of Page. 28
Hawthorn street, south side, east of Tremont 147 feet. Post. . . . 28
Hawthorn street, southwest corner of Brigham. Post. 26
Hawthorn street, south side, 301 feet west of Brigham. Post. . . 24
Hazard street, south side, west of State 140 feet. 36
Hazard street, southwest corner of Pleasant. 46
Hicks street, south side, east of Acushnet avenue 276 feet. Post. . 56
High street, south side, east of Acushnet avenue 43 feet. 48
High street, south side, east of County 177 feet. 23
Hillman street, southwest corner of Second. 57
Hillman street, southeast corner of Hill. 32
Hillman street, southwest corner of Chancery. Post. 29
Howland street, northeast corner of Second. 63
Howland street, south side, 19 feet west of Prospect. Post. . . . 60
Independence street, south side, 154 feet west of County. Post. . 57

Irving court, north end of court. 25
James street, west side, 216 feet north of Arnold. Post. 24
Katharine street, south side, 66.7 feet east of Crapo. Post. 62
Kempton street, southwest corner of Pleasant. Post. 36
Kempton street, south side, opposite Hill. 28
Kempton street, southwest corner of Summer. 19
Kempton street, southwest corner of Emerson. 26
Kempton street, southwest corner of Park. 28
Kempton street, southwest corner of Liberty. 29
Kempton street, southeast corner of Jenney. 26
Kempton street, south side, west of Hunter 50 feet. Post. 21
Kempton street, southwest corner of Francis. Post. 14
Kilburn street, north side, east of Front 244 feet. Post. 62
Kilburn street, north side, east of Front 581 feet. Post. 64
Larch street, south side, 120 feet east of Mulberry. Post. . . . 45
Larch street, south side, 129 feet east of Hemlock. Post. 51
Liberty street, west side, south of Kempton 339 feet. 30
Lincoln street, west side, south of Union 171 feet. 23
Linden street, south side, west of State 13½ feet. Post. 43
Linden street, south side, west of County 169 feet. Post. 34
Linden street, south side, 67½ feet west of Reynolds. Post. 24
Linden street, south side, 6½ feet east of Ashland. Post. 14
Lindsey street, west side, 173 feet south of Kempton. Post. . . . 27
Lindsey street, northwest corner of Morgan. Post. 24
Locust street, southwest corner of Chestnut. Post. 23
Locust street, southeast corner of Richmond. Post. 15
Logan street, southwest corner of North Front. 65
Logan street, south side, east of Acushnet avenue 400 feet. 62
Logan street, southwest corner of Acushnet avenue. 63
Lombard street, west side, 209½ feet south of Rockland. Post. . . 50
Madison street, southwest corner of First. 61
Madison street, southwest corner of Sixth. Post. 41
Maitland street, south side, west of Cedar 305 feet. Post. 14
Maxfield street, southwest corner of Second. Post. 58
Maxfield street, southwest corner of Pleasant. Post. 38
Maxfield street, southeast corner of Chestnut. 19
Maxfield street, southeast corner of Spruce. 21
Maxfield street, southwest corner of Ash. Post. 22

McGurk street, west side, 259 feet north of Middle Point road. Post. 55
Mechanics lane, north side, east of Eighth 206 feet. 30
Merrimac street, southwest corner of State. Post. 41
Middle street, southeast corner of Second. 54
Middle street, southeast corner of Sixth. Double. 36
Middle street, south side, east of Cedar 371 feet. 32
Middle street, southeast corner of Chancery. 29
Mill street, south side, west of Hill 191 feet. 25
Mill street, south side, west of Ash 45 feet. 25
Mill street, south side, 138 feet west of Hunter. Post. 18
Mill street, south side, 98 feet west of Beach. Post. 14
Mitchell street, west side, 179 feet north of Coggeshall. Post. . . 63
Morgan street, southwest corner of Cottage. 33
Mosher street, south side, west of County 517 feet. Post. 59
Mt. Pleasant street, southeast corner of Distributing Reservoir. . . 4
Mt. Pleasant street, west side, north of Durfee 572 feet. 8
Mt. Pleasant street, northwest corner of Durfee. Post. 12
Mt. Vernon street, south side, 359 feet west of Mt. Pleasant. . . . 6
Myrtle street, west side, 295 feet north of Weld. Post. 20
Nelson street, south side, 542 feet west of County. Post. 60
Newton street, northwest corner of Elm. Post. 29
North street, southeast corner of Second. Post. 54
North street, southeast corner of Acushnet avenue. 50
North street, northwest corner of Pleasant. Post. 35
North street, southwest corner of Foster. 35
North street, southwest corner of Park. Post. 29
North street, southeast corner of Newton. Post. 32
North street, southwest corner of Hunter. Post. 22
Oak street, southwest corner of Harrison. Post. 45
Oak street, west side, 177 feet north of Grape. Post. 39
Ocean street, west side, 184½ feet south of Arnold. Post. 32
Old Point road, west side, east of French avenue 650 feet. 53
Orchard street, west side, head of Madison. 27
Page street, west side, 429½ feet south of Hawthorn. Post. 36
Palmer street, west side, 113 feet south of Court. Post. 19
Park place, south side, 306 feet west of Sixth. 32
Park street, west side, 27 feet south of Maxfield. Post. 24

Park street, southwest corner of Hillman. Post. 25
Park street, west side, south of Kempton 339 feet. Post. 27
Park street, northwest corner of Court. Post. 28
Park street, west side, north of Arnold 263 feet. Post. 34
Parker street, south side Oak Grove Cemetery. Post. 25
Parker street, southwest corner of Summer. 27
Pearl street, southwest corner of Pleasant. Post. 41
Pine street, northwest corner of Cross. 65
Pleasant street, southwest corner of Market. 37
Pleasant street, west side, north of William 21½ feet. Post. 40
Pleasant street, east side, foot of Sycamore. Post. 39
Pleasant street, northwest corner of Pope. 42
Pleasant street, northwest corner of Austin. 47
Pleasant street, southwest corner of Linden. 48
Pleasant street, southwest corner of Weld. Post. 48
Pope street, south side, opposite North Oak. 32
Pope street, south side, 226 feet east of Chestnut. Post. 21
Poplar road, south side, 431 feet west of Bolton road. Post. . . . 52
Potomska street, A group of three post hydrants located about 300 feet east of Prospect and 91 feet north of south line of Potomska street, ... 64
Prospect street, west side, 275 feet north of Grinnell. Post. . . . 61
Prospect street, northwest corner of Grinnell. Post. 63
Prospect street, west side, north of Potomska 324½ feet. Post. . . 62
Prospect street, northwest corner of Potomska. Post. 63
Purchase street, northwest corner of Deane. Post. 43
Purchase street, west side, opposite Oneko Mill. Post. 48
Purchase street, east side, opposite Clark. Post. 58
Purchase street, west side, opposite Logan. 58
Purchase street, northwest corner of Merrimac. Double. 51
Purchase street, northwest corner of Pope. 52
Purchase street, southwest corner of Pearl. Double. 52
Purchase street, southwest corner of Campbell. 47
Purchase street, west side, north of Maxfield 343 feet. Double. . . 46
Purchase street, southwest corner of Hillman. Double. 43
Purchase street, southwest corner of Mill. 42
Purchase street, northwest corner of Middle. 40
Purchase street, west side, at Central engine-house. Post. 40

Purchase street, northwest corner of Union. 43
Reed street, west side, 207.8 feet south of Kempton. Post. 18
Reed street, west side, 25 feet north of Elm. Post. 15
Reynolds street, southwest corner of Weld. Post. 26
Reynolds street, west side, 18 feet south of Clark. Post. 29
Rivet street, southwest corner of Second. 62
Rivet street, southwest corner of County. Post. 59
Rivet street, southwest corner of Bonney. Post. 59
Rivet street, southwest corner of Hemlock. Post. 51
Rivet street, southeast corner of Bolton road. Post. 56
Robeson street, southwest corner of County. Post. 26
Robeson street, southwest corner of Ashland. Post. 15
Robeson street, south side, 382 feet west of Ashland. Post. . . . 20
Robeson street, southeast corner of Cedar. Post. 21
Robeson street, south side, 351 feet west of Cedar. Post. 17
Rock street, southwest corner of Washburn. Post. 61
Rock street, west side, 134 feet north of Coggeshall. Post. 62
Rock street, northwest corner of Beetle. Post. 60
Rockland street, southwest corner of County. Post. 58
Rockland street, southeast corner of Hall. Post. 56
Rockland street, south side, 13 feet west of Orchard. Post. . . . 54
Rockland street, southwest corner of Lombard. Post. 50
Rounds street, northwest corner of Elm. Post. 22
Russell street, south side, east of Fifth 92 feet. 54
Russell street, southwest corner of Sixth. Post. 47
Russell street, south side, 179 feet west of Sixth. Post. 42
Sawyer street, southwest corner of Bowditch. Post. 53
Sawyer street, southwest corner of Acushnet avenue. Post. . . . 59
Sawyer street, southeast corner of Rock. Post. 65
Sawyer street, south side, 419 feet east of Mitchell. Post. 64
School street, southwest corner of Sixth. Post. 37
Second street, northwest corner of Mill. 55
Second street, west side, south of Elm 52 feet. Post. 52
Second street, west side, south of Spring 74 feet. 55
Second street, northwest corner of Coffin. 61
Second street, west side, at head of Morgan's lane. Post. 60
Second street, west side, north of Grinnell 61 feet. 63
Second street, west side, north of Potomska 232 feet. Post. . . . 61

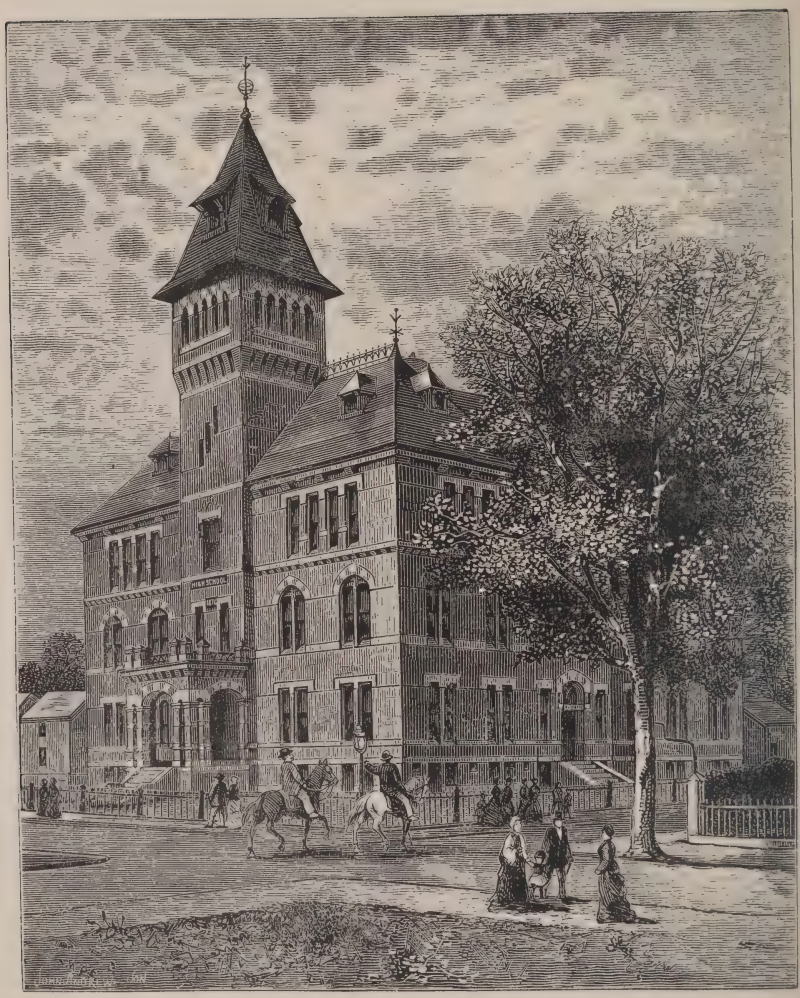
Second street, west side, south of Potomska 122 feet. Post. . . . 63
Second street, west side, 188 feet south of Blackmer. Post. . . . 59
Seventh street, southwest corner of Union. Post. 31
Seventh street, west side, north of Madison 50 feet. 36
Shawmut avenue, west side, 39 feet north of Locust. Post. . . . 11
Shawmut avenue, west side, 195 feet north of Austin. Post. . . . 13
Shawmut avenue, west side, head of Locust. Post. 17
Sherman street, south side, west of County 314 feet. 51
Sisson street, northwest corner of Union. Post. 52
Sixth street, west side, north of Grinnell 194 feet. Post. 60
Smith street, southwest corner of Chestnut. Double. 22
Smith street, southeast corner of Spruce. Double. 20
Smith street, southeast corner of Emerson. 22
Smith street, south side, east of Park 5 feet. Post. 29
South street, southwest corner of Acushnet avenue. 62
South street, southwest corner of Second. 62
South street, southwest corner of Water. Post. 63
South street, southwest corner of Prospect. Post. 61
South Beach road, southwest corner of Bolton road. Post. 57
South Beach road, south side, 327 feet west of Bolton road. Post. 54
Spring street, southeast corner of Acushnet avenue. Post. 51
Spring street, southwest corner of Seventh. 32
Spring street, southeast corner of Fifth. 42
State street, northwest corner of Sycamore. 35
State street, southwest corner of Pearl. 34
Summer street, northwest corner of North. 16
Summer street, northwest corner of Hillman. 16
Summer street, southwest corner of Willis. 26
Sycamore street, southwest corner of Thomas. 30
Sycamore street, southwest corner of Summer. 24
Sycamore street, south side, west of Ash 68 feet. 22
Thomas street, northwest corner of Hillman. 24
Thompson street, south side, 20 feet east of Hall. Post. 58
Thompson street, southwest corner of County. Post. 59
Tremont street, southwest corner of Union. Post. 26
Tremont street, northwest corner of Maple. Post. 29
Trinity street, south side, 145 feet west of Cedar. Post. 19
Union street, southwest corner of Water. Double. 57

Union street, southeast corner of Second. 52
Union street, southwest corner of Acushnet avenue. Double. . . 48
Union street, southwest corner of Sixth. Post. 38
Union street, southeast corner of Emerson. Post. 28
Union street, south side, 344 feet west of Park. Post. 28
Walden street, southwest corner of Maxfield. 31
Wall street, south side, east of Acushnet avenue 165 feet. 62
Walnut street, northwest corner of Front. Post. 61
Walnut street, southwest corner of Second. 57
Walnut street, southeast corner of Fourth. Double. 51
Walnut street, southwest corner of Seventh. Post. 38
Wamsutta street, south side, west of Front 200 feet. Post. 65
Wamsutta street, south side, west of Front 372 feet. Post. 65
Wamsutta street, south side, east of Acushnet ave. 285 ft. Double. 64
Ward street, west side, 62 feet south of Bay. Post. 46
Washburn street, southeast corner of Acushnet avenue. 59
Washburn street, south side, west of North Front 228 feet. 59
Washington street, southeast corner of Crapo. 58
Washington street, south side, west of Orchard 102 feet. 50
Washington street, southeast corner of Dartmouth. 46
Water street, southwest corner of Hillman. 65
Water street, southwest corner of North. Post. 64
Water street, west side, south of North 258 feet. 63
Water street, northwest corner of Middle. Double. 62
Water street, southwest corner of Elm. 60
Water street, west side, north of Centre 46 feet. 50
Water street, west side, north of School 22 feet. 60
Water street, northwest corner of Walnut. 61
Water street, northeast corner of City wharf. 62
Water street, northwest corner of Coffin. 64
Water street, west side, head of Pine. Post. 67
Water street, west side, head of Leonard. Post. 62
Water street, southwest corner of Howland. Post. 60
Water street, northwest corner of Grinnell. Post. 60
Water street, northwest corner of Potomska. Post. 63
Water street, west side, 266 feet south of Potomska. Post. 63
Water street, northwest corner of Rivet. Post. 63
Water street, southwest corner of Blackmer. Post. 63

Water street, northwest corner of Delano. Post. 62
Water street, west side, head of Gifford. Post. 62
Water street, northwest corner of Cove. Post. 62
Weld street, southwest corner of State. Post. 43
William street, southwest corner of Bethel. 51
William street, southeast corner of Acushnet avenue. 47
William street, southwest corner of Sixth. Post. 38
William street, southwest corner of Eighth. 26
Willis street, southeast corner of Pleasant. Post. 41
Willis street, southwest corner of State. 32
Willis street, southwest corner of County. Post. 26
Willis street, southwest corner of Cottage. Post. 19
Willis street, south side, west of Cedar 200 feet. 18
Willow street, south side, 305 feet east of Cedar. Post. 16
Wing street, southwest corner of Fourth. 57
Wing street, southwest corner of Sixth. Post. 57
Winsor street, south side, west of County 455½ feet. Post. 58
Winsor street, south side, 77½ feet east of Crapo. Post. 60

Number of flush hydrants, ... 200
Number of post hydrants, ... 299

Total number of hydrants, ... 499



HIGH SCHOOL.

ERECTED 1876. SEATING CAPACITY 400.

1891—CITY DOCUMENT No. 6.

ANNUAL REPORT

OF THE

SCHOOL COMMITTEE

OF THE

City of New Bedford,

TOGETHER WITH THE

Superintendent's Annual Report,

FOR THE YEAR 1891.

NEW BEDFORD:
E. ANTHONY & SONS, Incorp., CITY PRINTERS.
1892.

In School Committee,

Jan. 5, 1892.

Voted, That the Secretary is hereby instructed to prepare the Annual Report of the School Board, and that 1200 copies of the same be printed.

REPORT OF THE SECRETARY.

By direction of the School Committee, I submit to our fellow-citizens the following Report for the year 1891.

STATISTICS.

I. POPULATION AND VALUATION.

The population of the city (census of 1880) was	26,875
The population of the city (census of 1890) was	40,705
Estimated population of the city (Dec. 31, 1891) is	44,000
Valuation of taxable property (1891) was	38,518,943.00

II. SCHOOL CENSUS.

School census, May, 1890, (children between 5 and 15 years of age),	6,833
School census, May, 1891, (children between 5 and 15 years of age),	7,891
Increase during year, (children between 5 and 15 years of age),	1,058

SCHOOL CENSUS BY WARDS.

	1890.	1891.	Gain.
Ward One,	2,007	2,530	523
Ward Two,	713	716	3
Ward Three,	677	698	21
Ward Four,	439	452	13
Ward Five,	686	761	75
Ward Six,	2,311	2,734	423
	6,833	7,891	1,058

LOCATION OF CHILDREN BETWEEN 5 AND 15 YEARS OF AGE, AS REPORTED BY CENSUS OFFICERS.

	Attending Public Schools.	Attending Private and Parochial Schools.	Attending no School.
Ward One,	967	1,029	534
Ward Two,	441	174	101
Ward Three,	591	34	73
Ward Four,	347	39	66
Ward Five,	532	136	93
Ward Six,	1,788	454	492
	4,666	1,866	1,359

REMARKS ON THE CENSUS.

The rapid growth of the city is evidenced by the school census given above. Within a year the increase in the number of children in the city, between the ages of 5 and 15, has been 1058. While the compulsory age of school attendance in this State is from 8 to 14, children are received into the schools at 5 years of age, the majority beginning between the ages of 5 and 6. The majority of the pupils in the upper grade grammar and the High school are over 14 years old. The basis for the school census, then, throughout the State, is not the compulsory school age, but the period from 5 to 15 years of age, and the distribution of State aid to the small and poor towns is based on the school census.

The statistics of school attendance show that the increase in the number of children in the city has been proportionately felt in the schools. There were 530 more pupils enrolled for the year 1891 than for the year 1890. In the above table giving the number of pupils who were reported by the census officers as attending or not attending school at the time the census was taken, 23 per cent. are reported as attending private and parochial schools, and 17 per cent. as attending no school. It must not be inferred from this, however, that the 17 per cent. have not attended school at all, or will not. This number in-

cludes children under 8 years of age whose parents have not yet placed them in school; also those are included between 13 and 15 years of age who have completed their school time under the law, and have been granted certificates to go to work. I am satisfied that the number of pupils who evade attending school in this city is very small.

III. SCHOOLS.

High,	1
Training School for Teachers,	1
Grammar,	4
Primary,	11
Country,	5
Mill.	2
Total,	24

IV. SCHOOL BUILDINGS.

Occupied by the schools,	22

ROOMS USED FOR SCHOOL PURPOSES (DAY SCHOOLS), INCLUDING HALLS AND RECITATION ROOMS.

High,	17
Training,	9
Grammar,	39
Primary,	59
Mill,	4
Country,	8
Rooms unoccupied,	6
Total,	142
Rooms used for both day and evening schools,	20
Rooms used for evening drawing schools,	3

V. SEATS.

Number seats occupied:	
High school,	382
Grammar schools,	1,730
Primary schools,	2,686
Training school,	312
Mill schools,	214
Country schools,	112
Number seats unoccupied,	654
Total,	6,090

VI. TEACHERS.

Whole number in service, December 18, 1891:

High school,	14
Training school,	17
Grammar schools,	40
Primary schools,	60
Country schools,	7
Mill schools,	4
Special teachers,	5
Temporary assistants,	2
Evening schools,	51
Total,	200

VII. PUPILS.

DAY SCHOOLS, 1891.

Whole number pupils enrolled of all ages,	6,383
Average number pupils belonging,	5,024
Average daily attendance,	4,521
Per cent. of attendance,	90
Number of half-days' absence,	185,481
Number cases of tardiness,	13,574
Number cases of dismissal,	14,938
Number cases truancy reported by teachers,	197
Number cases corporal punishment,	901
Half-days' absence of teachers,	721
Number cases tardiness by teachers,	135
Number visits made the schools by superintendent,	565
Number visits made the schools by committee,	777
Number visits made the schools by parents and others,	2,938

EVENING SCHOOLS.

	Boys.	Girls.	Total.
Whole number pupils enrolled,	1,380	662	2,042
Average number belonging,			903
Average nightly attendance,			678
Per cent. of attendance,			75
Total nights' absence,			12,917
Number cases tardiness,			2,136
Number visits by committee,			120

EVENING DRAWING SCHOOL.

	Boys.	Girls.	Total.
Whole number pupils enrolled,	68	17	85
Average number belonging,			60.5
Average nightly attendance,			55.7
Per cent. of attendance,			90
Total nights' absence,			321
Number visits made by committee,			1

PRIVATE AND PAROCHIAL SCHOOLS.

	Boys.	Girls.	Total.
Whole number enrolled,	1,062	1,248	2,302
Average number belonging,			2,017
Average daily attendance,			1,855
Per cent. of attendance,			92

REMARKS UPON THE STATISTICS.

The enrollment of pupils in the schools shows a steady and rapid increase. The whole enrollment in the day schools for the year 1891 was 6383, an increase of 530 over the year 1890; the average number belonging, 5024, an increase of 415; the average daily attendance, 4521, an increase of 421. The ratio of attendance to the average number belonging was 90 per cent., while the year before it was 89 per cent.; this is a slight gain.

It is a most commendable fact, also, that with an average number belonging of 415 more pupils than during the preceding year, there have occurred less actual cases of absence, fewer tardinesses, dismissals and truancy, as well as 26 per cent. less cases of corporal punishment. These figures show improvement in the lines that I trust will show still better returns in the future.

The statistics under the heading "Evening Schools" reveal what an important factor they have become in a few years in the educational agencies of the city. With an enrollment of 2042, and an average number belonging of 903, it has required five principals and forty-six assistants to

conduct them. They are no slight increase to the expense and care of the school department.

The statistics for the private and parochial schools are furnished, as usual, by the courtesy of those in charge of those institutions. Although in some of these schools the statistics are not kept with the same accuracy as they are in the public schools, the summaries show, without doubt, a close approximation to the actual facts.

COST OF INSTRUCTION PER SCHOLAR, BY SCHOOLS.

In this connection, the cost of instruction per scholar is based upon the average number belonging to each school during the year, and the amount expended for hire of teachers, fuel, care of school-houses, books and supplies (except those furnished from the income of the Sylvia Ann Howland fund), the term "care of school-houses" including only the salaries of janitors.

Elsewhere in the report is given the cost, by departments, of each pupil, based on the average number of pupils belonging, and the total amount expended for the maintenance of each department during the year. This last computation will be the basis upon which tuition of non-residents will be collected.

TABLE 1. This table is computed, as in former reports, on the items classified above.

The cost of maintenance of each scholar in the High school for the year has been	$50.23
Grammar schools:	
Fifth street,	$24.87
Middle street,	25.35
Parker street,	21.10
Thompson street,	20.44
Harrington Training school,	21.90

Primary schools:	
Acushnet avenue,	$15.10
I. W. Benjamin,	20.55
Cedar street,	16.05
Cedar Grove street,	16.03
Cannonville,	20.55
Dartmouth street,	15.56
Fourth street,	16.96
Linden street,	16.64
Merrimac street,	22.45
Maxfield street,	19.31
William street,	20.40
Country schools:	
Acushnet,	$28.52
Clark's Point,	24.10
North,	22.69
Plainville,	31.56
Rockdale,	24.79
Mill schools:	
North Mill,	$29.62
South Mill,	29.02
Evening schools:	
Cedar Grove street,	$7.82
Fifth street,	5.16
Merrimac street,	10.89
Parker street,	12.63
Thompson street,	6.01
Evening Drawing,	16.22
The average cost of a	
Grammar school pupil was	$23.00
Primary school pupil was	18.15
Country school pupil was	26.57
Mill school pupil was	29.30
Evening Elementary school pupil was	7.18
Evening Drawing school pupil was	16.22

TABLE 2. The average cost per pupil, by departments, based on the average number belonging and total expenditures for each department, was as follows:

High school,	$52.43
Grammar schools,	23.44
Primary schools,	19.41
Country schools,	29.71
Mill schools.	32.36
Evening Elementary schools,	7.18
Evening Drawing schools,	16.22
Average cost of a day school pupil,	$23.85
Average cost of an evening school pupil, including drawing school,	7.39

EXPENDITURES.

RECEIPTS.

Annual and special appropriations:

For teachers' salaries,		$87,000.00	
Incidentals (including books and supplies)		33,000.00	
" (furnishing I. W. Benjamin school),		3,000.00	
Repairs of buildings, annual appropriation,		4,500.00	
" " special appropriations,		4,900.00	
Harrington school,	$500.00		
Maxfield Street school,	1,075.00		
High school,	1,625.00		
North school,	1,200.00		
Deficiency,	500.00		$132,400.00

PAYMENTS.

For teachers' salaries,		$86,142.76	
Incidentals (including books and supplies),		31,687.60	
" (furnishing I. W. Benjamin school),		3,000.00	
Repairs of buildings,		6,978.93	127,809.29
Balance,			$4,590.71

Of this unexpended balance, $2400 is for contemplated work yet uncompleted, as follows:

High school, new boiler,	$1,200.00	
North school, addition,	1,200.00	$2,400.00

DOG FUND.

Balance, Jan. 1, 1891,	$2,639.24	
Received, Feb., 1891,	1,291.91	$3,931.15
Expenditures,		579.78
Balance,		$3,351.37

Received from non-resident pupils,	$952.44	
" " sale of sundry articles,	9.00	
" " " books and supplies,	36.70	$998.14

The above receipts, $998.14, have been paid over to the City Treasurer and placed to account of Unappropriated Funds.

The total amount expended for the day schools for the year 1891 exceeded that for 1890 by $5,898.25, as follows:

Pay of teachers (increase),	$3,565.86	
Incidentals "	4,102.46	$7,668.32
Repairs of buildings (decrease),		1,770.07
Net increase,		$5,898.25

It is but fair to state that the item "pay of teachers" would have shown a much larger increase had it not been that the fiscal year for that item (and this occurs once in six years) was one week shorter than the usual fiscal year. The usual number of weeks for which teachers are paid is forty; for 1891 it was thirty-nine, and for 1892 it will be forty-one. This is due to the fact that the fiscal year and the school year are not identical. As I stated above, had it not been that the fiscal school year was one week shorter than usual for item "pay of teachers," a larger increase of expenditure would have been shown than is indicated. This would have been due to two causes: the one, the advance in salaries that has been made in maximum pay of both primary and grammar teachers; the other, the increase in the number of regular teachers employed, necessitated by the growth of the schools. Of the increase in the "incidental account," $4,102.46, $3000 was appropri-

ated for equipping the I. W. Benjamin school with furniture and apparatus.

On comparing the cost per pupil for the day schools in 1890 and 1891, taking as the basis of comparison the whole expenditures for the year and the average number of pupils belonging, I find that the cost per pupil for 1891 was $0.88 less per pupil than for 1890. Adding the pay of day teachers for the first week in 1892, which was $2,156.38, to the total expenditures for 1891, that the basis of comparison as to the number of weeks for 1890 and 1891 may be the same, I find that the cost per pupil for 1891 was 43 cents per pupil less than for 1890. This result has been accomplished chiefly by watching carefully the condition of each room as to numbers, and by judicious transfers of pupils from crowded schools to less crowded ones, as well as by consolidating schools when possible, thus keeping the number of pupils to each teacher well balanced throughout the city.

The increase in the pay of teachers has added about $4500 per annum to the pay-roll of the department, with the existing corps of teachers. The full effect of that increase was not felt the past year. It will be felt fully in the expense of the ensuing year. These salaries now compare favorably with those paid teachers in other cities of the Commonwealth of the comparative wealth of New Bedford. It is wise economy for a city to pay good salaries to its teachers, provided these salaries are made the means of commanding as good talent as is available. Treasurers of corporations are usually paid salaries in proportion to the amount of responsibility that devolves upon them, and their ability to produce good dividends. Teachers have grave responsibilities resting upon them. The dividends which they are called upon to produce are citizens of character, possessed of minds equipped for the duties of life. There is slight reason to suppose that

they will ever be paid salaries adequate to their responsibilities, and to their duties when efficiently performed.

SYLVIA ANN HOWLAND EDUCATIONAL FUND.

Balance of income on hand, Jan. 1, 1891,	$394.39
Interest for the year,	3,000.00
Total credit,	$3,394.39
Expenditures for the year,	3,114.03
Balance, Jan. 1, 1892,	$280.36
Cost of books and supplies during 1891,	$3,114.03
Cost of books and supplies in stock, Jan. 1, 1891,	114.21
	$3,228.24
Cost of books and supplies charged to schools, 1891,	$3,091.19
Cost of books and supplies in stock, Jan. 1, 1892,	137.05
	$3,228.24

Disbursements to the several schools, and otherwise, are as follows:

High school,	$570.47
Fifth Street Grammar school,	223.88
Middle Street " "	367.06
Parker Street " "	329.82
Thompson Street " "	137.78
Harrington Training "	173.66
Acushnet Avenue Primary school,	22.89
I. W. Benjamin " "	181.52
Cedar Street " "	15.93
Cedar Grove Street " "	49.92
Cannonville " "	3.54
Dartmouth Street " "	33.13
Fourth Street " "	44.48
Linden Street " "	20.80
Merrimac Street " "	32.37
Maxfield Street " "	16.22
Thompson Street " "	22.72
William Street " "	9.09
Acushnet "	36.30
Clark's Point "	12.51
North "	1.86

Plainville	school,	28.14
Rockdale	"	3.18
North Mill	"	7.75
South Mill	"	20.31
Evening Drawing	"	7.75
Farm	"	5.98
Office,		1.80
Care of musical instruments,		401.25
Express and freight,		47.26
Pedagogical library,		8.97
Lectures,		26.75
Sewing materials,		5.68
Covering books,		175.75
Stock on hand, Jan., 1892,		181.72
		$3,228.24

DETAILED STATEMENT.

Outlay by the School Committee from the income of the Sylvia Ann Howland fund, from Jan. 1, 1891, to Jan. 1, 1892.

BOOKS AND PERIODICALS.

American Book Company,	$132.39	
Appleton, D. & Co.,	38.67	
Berlitz & Co.,	4.00	
Boston School Supply Co.,	78.53	
Educator, The,	8.20	
Educational Publishing Co.,	36.75	
Ginn & Company,	64.84	
Goldthwaites', The,	2.00	
Hutchinson, H. S. & Co.,	246.83	
Heath, D. C. & Co.,	150.59	
Houghton, Mifflin & Co.,	44.54	
Kellogg, E. L. & Co.,	3.60	
Knowlton, D. H. & Co.,	2.80	
Lothrop, D. & Co.,	10.87	
Leach, Shewell & Sanborn,	45.75	
Lee & Shepard,	153.13	
Mason, Perry & Co.,	66.06	
Small, Willard,	33.50	
Teachers' Publishing Co.,	1.44	
University Publishing Co.,	24.74	
Ware, William & Co.,	.80	$1,150.03

PEDAGOGICAL LIBRARY.

Heath, D. C. & Co.,	$8.44	
Hatch, W. E.,	.53	8.97

LECTURES.

Hatch, W. E. (paid Miss Small for Swedish gymastics),	26.75

DRAWING DEPARTMENT.

Anderson, W. H., Jr.,	$60.00	
Caproni, P. P.,	7.75	
Hayes, N. P.,	3.75	71.50

SEWING DEPARTMENT.

Bliss & Nye,	$2.50	
Haskell & Tripp,	3.18	5.68

MUSIC DEPARTMENT.

Ditson, Oliver,	$9.25	
Ginn & Company,	296.70	
Ling, J. Henry,	3.05	
Peirce, George,	401.25	
Peirce, George,	51.00	
Silver, Burdett & Co.,	326.12	1,087.37

BINDING, COVERING BOOKS, AND COVERING-PAPER.

Gammons, Lottie M.,	$12.00	
Hathaway, Lottie,	19.55	
Kane, D. J. & Bro.,	52.32	
Lawton, Louise,	20 00	
Merrick, Emma J.,	22.05	
Potter, Frances,	10.15	
Potter, Hattie L.,	24.00	
Perry, George S.,	81.50	
Weaver Printing and Manufacturing Co.,	42.58	284.15

PRIMARY DEPARTMENT.

Bliss & Nye,	$2.68	
Dews, Edwin,	2.00	
Heath, D. C. & Co.,	4.34	
Mercury Publishing Co.,	6.00	
Perry, George S.,	92.54	107.56

CYCLOSTYE SUPPLIES.

Richter, George H. & Co.,	22.05

APPARATUS.		
Bliss & Nye,	$ .25	
Eimer & Amend,	21.59	
Educational Supply Co.,	42.70	
Ginn & Company,	44.70	
Hayes, N. P.,	3.33	
Richards, George D.,	11.05	
Sullings, Kingman & Co.,	3.34	
Sherman, C. R. & Son,	3.10	
Southern Mass. Telephone Co.,	1.50	131.56
EXPRESS AND FREIGHT.		
Gomley, J. A.,	$6.50	
Gardner, T. M.,	3.50	
Gray, C. A.,	4.66	
Hatch & Co.,	25.10	
Jennings, W. A.,	14.00	
McFarlin, James,	9.00	62.76
MISCELLANEOUS.		
Adams, C. F.,	$2.50	
Boston School Supply Co.,	24.00	
Chase, E. B.,	10.00	
Heath, D. C. & Co.,	23.85	
Hayes, N. P.,	1.00	
Kellogg, E. L. & Co.,	2.35	
McAllister, T. H.,	90.00	
Perry, George S.,	4.75	
Richards, George D.,	5.62	
Tillinghast, W. A.,	2.33	
Taber, R. W.,	1.00	167.40
		$3,125.78
Cr. by money returned from School Herald Pub. Co.,		11.75
		$3,114.03

A smaller balance from this fund has been carried forward than for some years, at least, and I imagine it is the smallest since the foundation of the fund. The demands upon it increase each year, from two causes: the first is that caused by the greater number of pupils in the schools: the second is the general educational trend which demands constantly more objective teaching, therefore more apparatus, more reference books, that pupils may be encour-

aged in the line of original investigation,—in short, manifold things which a few years ago were unknown quantities in any schoolroom. Fixed charges upon the fund have grown up also during the years which the fund has been in existence, such as the care of the musical instruments, the covering and rebinding of books purchased by the fund, and the like; so there is really less available for new matter than there was some years back.

It appears from the amounts disbursed to the different schools during the year that certain schools are much more favored than others. I think this does not hold true, however, if instead of making comparisons from the amounts disbursed in any one year, the disbursements of several years are considered. The average amounts vary, of course, with the size of the schools and the grade of the pupils. The High school, the grammar schools, and the primary schools, requiring expenditures whose amounts vary directly in the order named.

This fund is the envy of teachers in other cities, and the pride of our own. By it the schools are provided, without unduly increasing the amount expended for books and supplies, many things that make the tasks of the teachers easier, and help to broaden the instruction. Each succeeding generation of teachers and pupils will have occasion to bless the generosity and wisdom of Sylvia Ann Howland.

TEXT-BOOKS AND SUPPLIES.

STATEMENT.

Cost of books and supplies purchased during 1891,	$4,124.59	
Cost of books and supplies in stock, Jan. 1, 1891,	1,226.05	$5,350.64
Cost of books and supplies charged to schools in 1891,	$3,907.03	
Cost of books and supplies in stock, Jan. 1, 1892,	1,431.89	
Cash receipts from sale of books and supplies,	11.72	$5,350.64

The cost of books and supplies furnished the several schools in detail, for the year 1891, is as follows:

	Books.	Supplies.	Total.
High school,	$340.93	$627.87	$968.80
Fifth Street Grammar school,	261.29	293.06	554.35
Middle Street " "	293.96	207.40	501.36
Parker Street " "	127.78	202.08	329.86
Thompson St. " "	135.80	123.93	259.73
Harrington Training "	53.95	106.62	160.57
Acushnet Avenue Primary school,	4.50	47.98	52.48
I. W. Benjamin " "	59.34	88.19	147.53
Cedar Street " "	14.13	48.96	63.09
Cedar Grove Street " "	34.73	50.22	84.95
Cannonville " "	.54	16.72	17.26
Dartmouth Street " "	11.99	65.90	77.89
Fourth Street " "	10.08	38.77	48.85
Grove " "		7.68	7.68
Linden Street " "	15.93	26.69	42.62
Merrimac Street " "	4.38	28.96	33.34
Maxfield Street " "	3.42	32.02	35.44
Thompson Street " "	1.08	10.47	11.55
William Street " "	6.21	26.39	32.60
North Mill "	25.40	15.85	41.25
South Mill "	14.44	12.70	27.14
Acushnet "	34.36	34.31	68.67
Clark's Point "	5.75	11.44	17.19
North "	20.31	23.82	44.13
Plainville "	11.98	16.12	28.10
Rockdale "	7.59	23.20	30.79
Gedar Grove Street Evening "	18.98	14.36	33.34
Fifth Street " "		13.32	13.32
Merrimac Street " "		6.30	6.30
Parker Street " "	5.00	9.22	14.22
Thompson Street " "	10.95	23.70	34.65
Evening Drawing "		100.91	100.91
Farm "	1.66	5.73	7.39
Superintendent of Schools office,	1.80	7.88	9.68
	$1,538.26	$2,368.77	$3,907.03

The average cost per pupil in the different departments of the schools, for books and supplies, has been as follows:

High school,	$2.74
Grammar schools,	1.07
Primary schools,	.29
Country schools,	.95
Mill schools,	.61
Average for day schools,	.73
" Evening Elementary schools,	.11
" Evening Drawing school,	1.83

There was expended for the year, for books and supplies, $288.33 less than was expended in 1890, notwithstanding the fact that there were belonging to the schools 415 more pupils in the day schools than in 1890, while the evening schools have had as large an attendance. This does not show that less care was exercised in the expenditures in 1890 than in 1891. The necessary renewals of books in 1890 were larger than in 1891. There were some extraordinary expenditures in the former year, for drawing instruments and other items, that did not occur in the latter. A watchful care is exercised over all disbursements from the superintendent's office, and the teachers are fully alive to the responsibility that rests upon them in preserving all school property. It is true that the income derived from the Sylvia Ann Howland fund aids in keeping at a minimum the expenditures for books and supplies from the regular appropriations, while the schools in no wise suffer.

SCHOOL BUILDINGS.

There are now twenty-two school-houses in use by this department. One-half of them are brick, the other half are wood. Nearly all of the large buildings are brick. Within the last two or three years the most objectionable

buildings have either been replaced by new ones or remodeled. Early in the year the I. W. Benjamin school-house on Division street, a building with ten rooms and a hall capable of being converted into two more rooms, has been completed. The finished rooms are all occupied, and a large class seated in the hall. Undoubtedly within a short time the hall will be converted into two rooms and filled with pupils. Upon the completion of this building the Grove school-house, an old, disreputable building, was abandoned, and has been moved away.

The Kempton Street school-house, which had not been used for school purposes for two years, has been torn down preparatory to building upon the lot a school-house of sufficient size to accommodate the primary pupils in that section, and at the same time provide suitable rooms for the extension of manual training in the schools. The High Street building has also been abandoned, and is to be used for other purposes. The Truant school having been abandoned, the building formerly occupied by it, situated on the city farm, is no longer in use for school purposes.

Although the table at the beginning of this Report shows six rooms situated in different sections of the city that are not occupied for school purposes, I think that all of them will be occupied within six months.

Without question the school accommodations in the north part of the city will not suffice much longer for the needs of the schools. A new mill is projected for that section, which will add largely to the population. There is barely room now in the present buildings for the pupils who attend the schools. A site for a future building should be purchased while desirable lots are available. The time is not far distant when a new building will be necessary also in the northwest part of the city, and this fact should be considered.

The minor repairs upon the school buildings, such as painting, shingling, laying of new floors, plumbing, and the like, call for a considerable expenditure each year. For the past few years the amount regularly appropriated for repairs of buildings has not been adequate, and future appropriations must be increased somewhat to keep the buildings in good condition.

I wish to renew here my recommendation made last year, that the school yards be made more suitable for play-grounds by dressing them with powdered stone or some ingredient that will make them firm and dry. I am satisfied that their present condition, especially in the primary schools, is a source of sickness.

For the various committees.

WM. E. HATCH,
Secretary.

In School Committee,
January 4, 1892.

On motion of Mr. Milliken:

Voted unanimously, That the thanks of this Board be tendered to his Honor the Mayor, for the able, courteous, and impartial manner in which he has presided over the deliberations of the Board, and it is the earnest hope of the Board that notwithstanding his many and exacting duties, we shall have the pleasure of his frequent attendance during the coming school year.

On motion of Mr. Tompkins:

Voted unanimously, That the thanks of this Board are due and are hereby tendered William H. Pitman, the Vice-Chairman of this Board, for the faithful manner in which he has discharged the duties of that office, and particularly for his courteous treatment of the members.

On motion of Mr. Sayer:

Voted unanimously, That the thanks of this Board be extended to the Superintendent and Secretary for his faithful and zealous performance of duty, and his uniform courtesy in his relations with the Committee.

NEW BEDFORD HIGH SCHOOL GRADUATION EXERCISES, JUNE 26, 1891.

1. PRAYER. Rev. E. S. Rousmaniere.

Music.

2. CHORUS. "Hark! Apollo strikes the Lyre." (*Bishop.*) School.
3. SALUTATORY ADDRESS. Lottie B. Chase.
4. ESSAY. "Woman's Work." Grace H. Carr.

Music.

5. CHORUS. "Night's Shade no Longer." (*Rossini.*) School.
6. ORATION. "The Days of '76." Robert S. Phillips.

Music.

7. SONG. "Biondella." (*Suchet Champion.*) Grace W. Russell.
8. BOURNE PRIZE ESSAY.
"A Comparison of Nydia and Maggie Tulliver."
Bessie C. Read.

Music.

9. PART SONG. "Wiegenlied." (*Frank.*) School.
10. PRESENTATION OF DIPLOMAS, by his Honor Mayor Ashley.

Music.

11. PARTING SONG. Class of '91.
12. VALEDICTORY ADDRESS. William A. Wing.

PARTING HYMN.

WORDS BY BESSIE C. READ. MUSIC BY BEETHOVEN.

To-day we stand upon the shore,
And view the distant "far sea line";
Our bark is built and ready now
To bear us o'er the foaming brine.

Chorus—To-morrow, we our trusty bark
Will launch upon Life's troubled sea.
To all the past a long farewell,
We'll welcome that which is to be.

We'll hope that great deeds, nobly done,
Will mark the course of each career;
That all will follow Duty's call,
None yield to base, ignoble fear.

And when we've crossed the ocean deep,
And safely gained the farther shore,
May we with joy our anchor cast
In waters calm forevermore.

GRADUATES.

Carpe Diem.

Charles Posey Andress,
Richard Henry Bennett,
Ralph Gordon Davis,
Thomas Seals Fletcher,
Richmond LeRoy Gifford,
Francis Lyman Gilman,
Clarence Henry James,
George Nelson Mason,
Edward Lawrence McGurk,
Charles Warren Milliken,
Harry Gerrish Mosher,
Robert Simmons Phillips,
William Clifton Phillips,
Lester Forrest Potter,
Ernest Hamilton Sparrell,
Louis Wilton Tilden,
Benjamin Arthur Twiss,
Charles Swan Washburn,
William Arthur Wing,
Lois Davis Blake,
Caroline Elizabeth Bonney,
Angela Florence Bowie,
Agnes Estelle Braley,
Carrie Bell Brownell,
Annie Louise Burbank,
Grace Holmes Carr,
Charlotte Bunker Chase,
Mabel Edson Clifford,
Edith Helen Cobb,
Alice Louise Comey,
Nellie Bradford Crapo,
Edith Delano Dexter,
Emma Louise Gartland,
Sarah Wilbur Hart,
Alice Cornell Howland,
Eva Channing Jenney,
Evelyn Clark Kelley,
Alice Maud Kirby,
Edna Chaney Lawton,
Anna Christina Miller,
Kate Moore,
Florence Hayward Norton,
Flora May Peirce,
Elizabeth Carrington Read,
Grace Worthing Russell,
Mariana Choate Silvester,
Gertrude Pliny Smith,
Marion Hannah Swasey,
Mary Thomas Taber,
Henrietta Webster,
Florence Taber Weeden.

RECIPIENTS OF CERTIFICATES.

Elizabeth Sawyer Peirce,
Mabel Otis Reynolds.

GRADUATE AS OF CLASS OF '89.

Grace Eaton Thompson.

NEW BEDFORD PUBLIC SCHOOLS.

RATES OF TUITION FOR NON-RESIDENT PUPILS, 1892.

	First Term.	Second Term.	Third Term.	For the Year.
High school,	$17.90	$14.07	$20.46	$52.43
Grammar schools,	7.98	6.27	9.19	23.44
Primary schools,	6.63	5.20	7.58	19.41
Ungraded schools,	10.15	7.97	11.59	29.71
Evening Drawing school,				16.22

Tuition is payable in advance, either at the office of the Superintendent of Schools or at the schools where the pupils attend. All bills will be sent from the office of the Superintendent of Schools.

RULES GOVERNING TEACHERS' SALARIES.

	Maximum.	Minimum.
Principal of High school,	$2,750	
Sub-master of "	1,600	
Teacher of sciences, "	1,500	
Lady assistants, "	900	$650
Teacher of drawing, "	550	
Military instructor, "	300	
Principals of Grammar schools,	1,900	
Assistants " "	600	425
Principals of Primary schools,	600	
Assistants " "	550	375
Principal of Training school,	1,300	
Principal's assistant, Training school,	800	
Senior in " "	4 per week.	
Junior in " "	3 "	
Ungraded schools,	$450 to 700	
Principal of Evening Elementary schools,	3 per evening.	
Assistant " " "	1.37½ "	
Supervisor of drawing in Grammar and Primary schools,	1,200	
Supervisor of music,	1,700	
Teacher of sewing,	550	
Assistants at rate of	491	

The salary of a Primary school principal of a four-room building is $600 per year, which is increased at the rate of $25 for each additional room. The salaries of assistant teachers in the Grammar and Primary grades are increased at the rate of $25 per year until the maximum salary is reached. The salaries of assistants in the High school are increased at the rate of $50 per year until the maximum is reached.

DEPARTMENT OF PUBLIC SCHOOLS.

BRIEF DESCRIPTION OF THE SCHOOL-HOUSES, WITH THEIR ACCOMMODATIONS AND CONDITIONS.

	SCHOOLS.	Material.	No. of Stories.	No. of School-rooms.	No. of Recitation Rooms.	No. of Assembly Halls.	No. of Seats.	CONDITION.
1	Acushnet Avenue,	Brick.	3	8			389	Good.
2	Acushnet,	Wood.	2	3			114	Good.
3	I. W. Benjamin,	Brick.	3	10			537	New.
4	Cedar Street,	Wood.	2	6			268	Good.
5	Cedar Grove Street,	Brick.	3	8			391	Good.
6	Cannonville,	Wood.	2	2			82	Fair.
7	Clark's Point,	Wood.	1	1			30	Fair.
8	Dartmouth Street,	Wood.	2	6			294	Good.
9	Fifth Street,	Brick.	3	10		1	541	Good.
10	Fourth Street,	Wood.	2	6			281	Fair.
11	High,	Brick.	3	9	7	1	382	Good.
12	Harrington Memorial,	Brick.	3	9		1	371	Good.
13	Linden Street,	Wood.	2	4			200	Old and fair.
14	Middle Street,	Brick.	3	9		1	420	Good.
15	Merrimac Street,	Brick.	2	6			237	Good.
16	Maxfield Street,	Brick.	2	14			240	Good.
17	North,	Wood.	1	1			42	Good.
18	Parker Street,	Brick.	3	12		1	585	Good.
19	Plainville,	Wood.	1	1			28	Fair.
20	Rockdale,	Wood.	1	2			55	Good.
21	Thompson Street,	Brick.	3	11			423	Good.
22	William Street,	Wood.	2	4			180	Old and poor.

DEPARTMENT OF PUBLIC SCHOOLS.

REPORT FOR YEAR BEGINNING JANUARY 5, 1891, ENDING DECEMBER 18, 1891.

	NAME OF SCHOOL.	Total Enrollment for Year.	Average No. Belonging.	Average Daily Attendance.	Per cent. of Attendance.	Total Half Days' Absence.	No. Cases of Tardiness.	No. Cases of Dismissal.	No. Cases of Truancy.	No. Cases of Corporal Punishment.	Half Days Teachers were Absent.	Times Teach'rs were Tardy.	No. Visits by Superintend't.	No. Visits by Members Com.	No. Visits by Parents and Others.
1	High,	515	353.2	337.8	96	3,006	480	1,213	3		28	51	30	160	1,000
2	Fifth Street Grammar,	522	403	373	92.5	12,119	1,163	943	11	32	83	14	58	91	342
3	Middle " "	483	367.1	342	93.3	9,611	936	832	8	106	32	11	38	59	98
4	Parker " "	655	523.3	483.2	92	16,249	1,624	1,118	17	21	70	7	60	100	380
5	Thompson " "	320	242.1	219.3	91	8,099	461	340	15	34	43	3	48	72	138
6	Harrington Training,	342	297.3	266.6	90	13,154	1,651	459	9	73	84	7	37	43	374
7	Acushnet Ave. Primary,	351	323.7	282.5	89	15,742	931	445	13	88	7	2	44	13	26
8	I. W. Benjamin "	631	485	432	89	18,286	1,334	4,306	28	68	68	4	53	82	26
9	Cedar Street "	262	229.9	201.3	88	9,662	352	218	15	45	1	8	19	6	95
10	Cedar Grove St. "	368	294.3	252.1	86	14,502	622	2,511	9	30	6		24	16	34
11	Cannonville "	66	65	58	89	2,578	221	72	1	6		3	4	2	26
12	Dartmouth Street "	328	302	273	91	10,396	568	457	25	73	138		29	12	127
13	Fourth Street "	301	251	222	89	11,092	827	325	7	89	36	7	22	11	50
14	Linden Street "	201	166.7	147.4	88	6,840	353	958	1	35	46		16	9	15
15	Merrimac Street "	164	117	103	88	5,494	189	254	2	3		1	13	13	40
16	Maxfield Street "	191	160	146.1	91	5,465	496	342	2	60	11		18	11	69
17	William Street "	162	134	115	86	6,612	463	65	3	32	1		12	6	21
18	Acushnet,	95	83	74	89	3,332	324	86		11	11		7	14	44
19	Clark's Point,	35	26.2	21.1	80	1,716	166	75		13	4	1	5	2	3
20	Rockdale,	44	33	25	76	2,112	45	26		2	3	1	5	6	1
21	Plainville,	20	19.5	16.4	82	1,178	64	79	1	22	3		4	4	6
22	North,	42	36	34	91	985	37	15		2		2	2		6
23	North Mill,	137	52	44	84	3,772	180	42	22	22	20	12	4	16	
24	South Mill,	148	60	52	87	3,479	87	57	5	34	26	1	13	29	17
	Grand totals,	6383	5024.3	4520.8	90	185,481	13,574	14,938	197	901	721	135	565	777	2,938

CALENDAR, 1892.

Winter term begins Jan. 4, 1892; ends April 8, 1892.
Summer term begins April 18, 1892; ends July 1, 1892.
Fall term begins Sept. 8, 1892; ends Dec. 23, 1892.

VACATIONS.

April 9, 1892, to April 17, 1892, inclusive.
July 2, 1892, to Sept. 5, 1892, inclusive.
Dec. 24, 1892, to Jan. 8, 1893, inclusive.

HOLIDAYS.

Every Saturday; Washington's Birthday, or the day following when that occurs on Sunday; Fast Day; Memorial Day; Labor Day; from Wednesday noon before Thanksgiving the remainder of the week.

SCHOOL SESSIONS.

From March 1 to November 1, 9 A. M. to 11.30 A. M., and 2 P. M. to 4 P. M., in the Grammar schools; 9 A. M. to 12 M., and 2 P. M. to 4 P. M., in the Primary schools.

From November 1 to March 1, the afternoon sessions are from 1.30 o'clock to 3.30 o'clock, in the Grammar and Primary schools.

High school, 8.30 A. M. to 1.30 P. M., during the whole year.

The signal 22 (that is, two strokes, an interval, and the two strokes repeated) sounded on the fire alarm at 8.15 A. M. will indicate no school in the Primary and Grammar grades and the Acushnet school in the forenoon. The same signal sounded at 12.45 P. M. will indicate no school in the Primary and Grammar grades and the Acushnet school in the afternoon. If the signal is sounded at 8.15 A. M. and not repeated at 12.45 P. M., there will be a school session in the afternoon. This regulation does not apply to the High school or to the Country schools except the Acushnet school.

SCHOOL BOARD, 1891.

CHARLES S. ASHLEY, Mayor, Chairman, *ex-officio*.

WILLIAM H. PITMAN, Vice-Chairman.

WILLIAM E. HATCH, Secretary and Superintendent.

JOSEPH DAWSON, President of Common Council, *ex-officio*.

Ward 1—Elizabeth W. Stanton, Anna R. Borden, John H. Lowe.

Ward 2—Frank A. Milliken, Thomas Mack, Isaac B. Tompkins, Jr.

Ward 3—William H. Pitman, Stephen H. Shepherd, Helen W. Webster.

Ward 4—Seth W. Godfrey, George H. Dunbar, George H. Batchelor.

Ward 5—William L. Sayer, Fred. A. Bradford, Jona. Howland, Jr.

Ward 6—Francis M. Kennedy, Thomas Donaghy, Jr., Betsey B. Winslow.

STANDING COMMITTEES.

WILLIAM E. HATCH, Secretary.

On High School—Dunbar, Howland, Benjamin, Miss Winslow, Mrs. Webster, Mrs. Borden, Mrs. Stanton, Pitman, Tompkins.

On Grammar Schools—Tompkins, Pitman, Howland, Mrs. Webster, Bradford, Mrs. Borden, Lowe, Sayer, Milliken.

On Primary Schools—Benjamin, Pitman, Tompkins, Dunbar, Miss Winslow, Mrs. Stanton, Kennedy, Batchelor.

On Country Schools—Lowe, Donaghy, Mack, Batchelor, Mrs. Stanton, Godfrey.

On Training School—Pitman, Mrs Stanton, Kennedy, Mrs. Borden, Batchelor, Milliken, Sayer.

On Farm School—Donaghy, Kennedy, Bradford, Godfrey, Sayer, Milliken.

On Mill Schools—Mrs. Borden, Howland, Lowe, Donaghy, Mrs. Webster, Bradford, Godfrey.

On Evening Schools—Kennedy, Lowe, Mack, Donaghy, Batchelor, Godfrey, Milliken.

On Music—Bradford, Pitman, Batchelor, Sayer, Milliken, Godfrey.

On Drawing—Mrs. Webster, Miss Winslow, Donaghy, Dunbar, Mack, Godfrey, Sayer.

On Sewing—Miss Winslow, Mrs. Webster, Mrs. Borden, Mrs. Stanton.

On Examination of Teachers—Dunbar, Tompkins, Lowe, Donaghy, Kennedy, Mrs. Webster, Benjamin, Miss Winslow, Mrs. Borden, Bradford, Mrs. Stanton.

On Text-Books—Pitman, Kennedy, Mack, Batchelor, Milliken, Sayer.

On Expenditures—Howland, Benjamin, Tompkins, Pitman, Bradford, Mack, Lowe, Donaghy, Dawson.

On Howland Fund—Howland, Benjamin, Tompkins, Dunbar, Pitman, Bradford, Kennedy, Dawson.

On Pay-Rolls—Tompkins, Howland, Mack.

SCHOOL BOARD, 1892.

CHARLES S. ASHLEY, Mayor, Chairman, *ex-officio*.

WILLIAM H. PITMAN, Vice-Chairman.

WILLIAM E. HATCH, Secretary and Superintendent.
Office, 133 William street.
Office Hours, 8½ to 9 A. M., 12¼ to 1 P. M. Saturdays, 9 to 9½ A. M.

WILLIAM G. KIRSCHBAUM, Pres. of Common Council, *ex-officio*.
Regular meetings of the Board, first Monday of each month, at 7.30 P. M.

WARD ONE.

Name.	*Place of Business.*	*Residence.*
John H. Lowe,	925 Acushnet avenue.	931 Acushnet avenue.
Elizabeth W. Stanton,		Mt. Pleasant.
Anna R. Borden,		Ashland, cor. Austin st.

WARD TWO.

Isaac B. Tompkins, Jr.,	78 Union street,	691 County street.
Frank A. Milliken,	43 William street,	290 Pleasant street.
Thomas Mack,	20 Bedford street,	248 Cedar street.

WARD THREE.

William R. Channing,	192 Union street,	91 Mill street.
William H. Pitman,	Five Cents Sav. Bank,	60 Chestnut street.
Stephen H. Shepherd,	Standard Office,	24 Sycamore street.

WARD FOUR.

William E. Brownell,	271 Union street,	271 Union street.
Seth W. Godfrey,		17 Bethel street.
George H. Dunbar,		179 William street.

WARD FIVE.

Jona. Howland, Jr.,		54 Russell street.
William L. Sayer,	Mercury Office,	76 South Sixth street.
Fred. A. Bradford,	20 Bedford street,	342 Union street.

WARD SIX.

Betsey B. Winslow,		315 County street.
Francis M. Kennedy,	Eddy Building,	139 Acushnet avenue.
Thomas Donaghy, Jr.,	64 Union street,	103 Acushnet avenue.

EMMA M. ALMY, Superintendent's Clerk.

HENRY SMITH, Truant Officer.
Office Hours, 12½ to 1 P. M.; Saturdays, 9 to 9½ A. M. Residence, 372 Cottage st.

GEORGE K. DAMMON, Assistant Truant Officer.

STANDING COMMITTEES.

WILLIAM E. HATCH, Secretary.

On High School—Dunbar, Miss Winslow, Mrs. Borden, Mrs. Stanton, Pitman, Tompkins, Shepherd, Mack.

On Grammar Schools—Tompkins, Pitman, Howland, Bradford, Dunbar, Mrs. Borden, Lowe, Sayer, Milliken.

On Primary Schools—Shepherd, Pitman, Tompkins, Miss Winslow, Mrs. Stanton, Kennedy, Godfrey, Channing, Mrs. Borden.

On Country Schools—Lowe, Donaghy, Mack, Mrs. Stanton, Brownell, Channing.

On Training School—Pitman, Mrs. Stanton, Kennedy, Milliken, Sayer, Channing, Brownell.

On Truants—Donaghy, Kennedy, Bradford, Godfrey, Sayer, Milliken.

On Mill Schools—Mrs. Borden, Howland, Lowe, Donaghy, Bradford, Godfrey, Brownell.

On Evening Schools—Kennedy, Lowe, Mack, Donaghy, Godfrey, Milliken, Channing.

On Music—Bradford, Sayer, Milliken, Godfrey, Shepherd, Brownell.

On Manual Training—Sayer, Miss Winslow, Donaghy, Dunbar, Mack, Godfrey, Kennedy, Mrs. Borden, Mrs. Stanton.

On Examination of Teachers—Dunbar, Kennedy, Miss Winslow, Mrs. Borden, Mrs. Stanton, Pitman.

On Text-Books—Pitman, Kennedy, Mack, Milliken, Sayer, Brownell.

On Expenditures—Howland, Tompkins, Pitman, Bradford, Mack, Lowe, Donaghy, Shepherd, Kirschbaum.

On Howland Fund—Howland, Tompkins, Dunbar, Pitman, Bradford, Kennedy, Shepherd, Kirschbaum.

On Rules—Pitman, Dunbar, Howland, Tompkins.

On Pay-Rolls—Tompkins, Howland, Mack.

ISAAC W. BENJAMIN.

DIED MARCH 23, 1891.

Mr. Benjamin had served as a member of the School Board continuously for twenty-one years, and at the time of his death had two more years in which to serve to complete the term to which he had been last elected. His services were of great value to the schools, and were appreciated alike by the teachers and his associates upon the Board.

In Memoriam.

RESOLUTIONS

PASSED BY THE SCHOOL BOARD OF THE CITY OF NEW BEDFORD, APRIL 6, 1891.

The School Committee of New Bedford deploring the loss it has suffered in the death of Isaac W. Benjamin, one of its oldest members, places on record this last formal expression of appreciation of his worth and regard for his memory.

Mr. Benjamin was preeminently a faithful servant of the people who had chosen him to have the oversight of their common schools. The duties which devolved apon him were performed with intelligent zeal and scrupulous fidelity. He was unwearied in his devotion to the interests of the schools, unflagging in his care for the details of their management and wisely progressive, while he brought to all questions the test of a sound judgment, enlightened by long experience. A wise counsellor and an able administrator, the schools and the scholars owe to him the obligation of perpetual gratitude.

In his personal relations to the members of this Committee he was a valued friend, whose friendship could never be lightly estimated. The years of his service, as they lengthened, deepened our esteem and strengthened our confidence.

To the sorrowing family of our associate and friend we offer our sympathy, which, however imperfectly these words may express it, comes from hearts that are touched with a sense of inestimable personal loss.

ANNUAL REPORT

OF THE

SUPERINTENDENT OF SCHOOLS,

FOR THE YEAR 1891.

Report of the Superintendent.

To the School Committee:

Ladies and Gentlemen, — I have the honor to submit to you my fourth annual Report, which is the thirty-first of the series of Annual Reports of the Superintendent of Schools of the city.

By a vote of your Board this Report, together with that of the Secretary, is to constitute the Annual Report of the School Committee.

I take occasion at the outset to thank you most sincerely for your continued confidence and aid. I wish to express also my appreciation of the spirit manifested by the successive city governments toward the school department by which funds are willingly provided for carrying on the regular work successfully, and for building and equipping new and commodious school-houses to meet the growing needs of the department. And, more than all, I wish to thank our citizens at large for the generous support which they have always given the schools. This support has alone made it possible for a broad and liberal policy to be instituted and maintained in their administration.

ENROLLMENT AND ATTENDANCE OF PUPILS.

The statistics of enrollment and attendance (see table) for the year are gratifying in many respects. The enrollment has increased by 530 pupils; the average number belonging by 415; the average daily attendance by 528. The per cent. of attendance for the year in all the schools was 90, a gain of 1.1 per cent. over the preceding year.

This ratio of attendance is, however, no better than that secured in the average city, and falls below that of many.

With the larger enrollment, there were less actual cases of tardiness and dismissal than in the previous year. The decrease in the former is possibly due to the great exertions of the teachers to secure prompt attendance; and the latter to the change in the hours of afternoon sessions in the winter months, and the abolition of recesses in grammar schools, with the dismissal of schools at 11.30 o'clock in the forenoon instead of at 12 o'clock as formerly.

While it is pleasant to note improvement in all these points, the fact cannot be disguised that the work of the schools is seriously affected by absences, tardinesses, and dismissals of pupils. Many parents do not appear to realize the effect of occasional absences even upon the progress of their children. A pupil cannot lose a half-day's work with his class without suffering in a degree. If the absences are frequent and unnecessary, the pupil suffers not only from the loss of the subject matter that has been covered in his absence, but suffers most in that he is developing unconsciously within himself a habit of irresponsibility in the performance of duty. It is needless to state that absences on account of sickness, or for good and sufficient reasons, are excusable. But a large percentage of the absences, tardinesses, and dismissals, cannot be accounted for under the heading "absolutely necessary." I imagine that I am wasting time, ink and paper, in dwelling upon this theme. But I cannot but feel that it is a very important matter, and one upon which the sense of the community is not yet sufficiently awakened.

I this connection I wish to direct attention to the fact that although the enrollment in the public schools is now steadily increasing, (and has been since the large withdrawal incident to the establishment of the parochial

schools), a large percentage of the children in the city are no longer enrolled in the public schools. About one fourth of the pupils enrolled in the schools of the city are to be found in private and parochial schools. About one seventh are in the former, and six sevenths in the latter. Some of the children, it is true, who attend the private schools, find their way later on into the grammar grades of the public schools, but the majority of this 25 per cent. of the school children of the city are withdrawn forever from the public schools. I am no alarmist, neither do I question in the least the absolute right which every parent has under the laws to educate his child wherever he chooses under those laws. But I wish to call attention to the fact that the issue is now strongly drawn between the public and other schools, and those who would see not only the integrity of the public schools preserved, but their future usefulness increased, must insist that their superiority be maintained against all competitors.

TRUANTS AND INCORRIGIBLES.

The truant officers perform their duties with vigilance and discretion. The effect of their work is shown in the returns. The teachers report less cases than when the schools had a much smaller enrollment. Cases of truancy are confined to a comparatively few pupils, so long as those which do occur are vigorously checked. The moral effect of capable truant officers in checking the tendency to truancy is as valuable, if not more so, than their actual work. This surveillance of pupils who are disposed to be unruly is as necessary to the welfare of an extended system of schools, as is that of a sufficient police force for the preservation of peace and order in large cities. The majority of citizens in our cities are law-abiding, even under trying circumstances; others seem to live upon the border line between right-doing and wrong-doing; a still smaller

class are constant law-breakers. This condition of affairs in the larger life is but a counterpart of school life. Truant officers hold those pupils in check who compare to the second class by their manner of dealing with those who are similar to the third class.

It is no more possible to stamp out truancy in the schools than it is possible to stamp out law-breaking in the community at large. Schools cannot be made attractive enough to prevent truancy, nor can the best of teachers control it absolutely. Good teachers can do much, however, to check it. The cause of truancy usually lies back and outside of school. All cases of persistent truancy are reported to me by the truant officers, and we discuss the causes and advise together as to remedies and final disposition. Experience goes to show me that the two primary causes of truancy are, first, lack of proper guidance and restraint of pupils out of school; second (and this applies to a much smaller class), tendency to wrong-doing, caused either by an abnormal development, or an inheritance from a vicious ancestry.

The truant class by no means includes all the bad or vicious children in the schools. In fact, although they are law-breakers, many of them are not bad when they begin truancy, but usually become so if they are allowed to continue the practice for any length of time. A truant under the law is one who absents himself from school without permission of parent or teacher. Occasionally a dutiful pupil plays "hookey" when there is some strong attraction for him away from school, and he fears permission will not be granted him to enjoy it either by parent or teacher. But such cases are rarer in these days than of yore, and should be discriminated carefully by teachers.

But there exists another class of pupils who do not play truant, but are unruly and vicious. The influence of these upon the schools is more pernicious, in some cases, than

that of truants. Ordinary punishments do not reach them. They do not seem amenable to the influence of either the school authorities or to that of the parents. What to do with them has always been a source of trouble to those who are responsible for them. The state authorities, recognizing that something should be done to reach such pupils, and realizing that expelling them from school would result badly for them and the community, amended the truant law that pupils of this class should come under its provisions. The section as amended reads as follows: "Each town shall make all needful provisions and arrangements concerning habitual truants and children between seven and fifteen years of age, who may be found wandering about in the streets or public places therein, having no lawful occupation or business, not attending school, and growing up in ignorance, and such children as *persistently violate the reasonable rules and regulations of the common schools*, and shall make such by-laws as shall be most conducive to the welfare of such children and to the good order of such town: and shall provide suitable places for the confinement, discipline, and instruction of such children."

The School Committee, after due consideration, has requested the City Council to adopt an ordinance by which the section quoted may become operative in this city. It is now before the Committee on Education. I hope that the measure will receive favorable consideration. Its application will be rare, but the very fact that it can be used will exercise a most wholesome restraint on the class for whom it is intended.

I cannot close the article without expressing my gratification that the City Truant School no longer exists. It never was on a proper basis, and the School Committee for years sought to have it improved or other provision made for the truants. The founding of the Union Truant

School at Walpole by the counties of Norfolk, Bristol, and Plymouth, has enabled the city to abandon its truant school. This it has done, and the truants who were confined there were transferred to the Union school, and others convicted since that time have been sent there. There are confined in that school at present from this city ten truants. I have visited the school and am satisfied that it is a well conducted institution, wherein the well-being of the boys will be promoted.

I append the yearly reports of the Truant Officer and the Assistant Truant Officer. The former gives his whole time to the service of the day schools; the latter gives his especial attention to the evening school delinquents, and to the inspection of factories and mercantile establishments where child-labor is employed; he also serves as messenger and janitor at the School Committee rooms. Both are kept busy with the various duties of their positions. These duties are specified in their reports.

TRUANT OFFICER'S REPORT.

Schools visited,	1,272
Absences reported by teachers,	486
Absences without permission of parents,	111
Second offences,	42
Third offences,	21
Parents notified,	569
Arrests,	14
Prosecutions,	13
On probation,	2
Sentenced to Truant school,	11
Tardinesses investigated,	20
Taken to school from street,	26
Visits to mills,	62
Violations of labor law,	10

ASSISTANT TRUANT OFFICER'S REPORT.

Boys interviewed on streets,	12
Schools visited,	397
Families visited,	17
Cases of absences from evening schools,	897
Mills and mercantile establishments visited,	836
Violations of labor law,	13

EMPLOYMENT LAWS

RELATING TO THE EMPLOYMENT OF CHILDREN AND ILLITERATE MINORS, AND THE CERTIFICATING OF THE SAME.

If I thought that the many who are interested in this subject, directly or indirectly, would ever read this article, I would give it considerable space in this Report. The matter seems to be little understood, but it has become one of magnitude in connection with the duties of the Superintendent's office within three years. It is not simply the issuing of the certificates,—that alone is no slight matter, as hundreds are issued now each year,—but it is the time required in explanation of the requirements, and the vexations that arise from the misconception that those seeking certificates have of the power of the Superintendent in the matter. The laws are complicated that relate to it, and differ so materially from those of even our neighboring states that explanations are necessary to every new comer. Many of those who apply, also, are foreigners who speak no English, and the services of an interpreter are required to make them understand the situation.

Poverty and distress are often pleaded to enlist sympathy, and sometimes threats are made, all for the same purpose, to secure the coveted certificate, without which employment cannot be had. The cases are frequent that the parties leave the office without apparently recognizing the fact that the Superintendent has no discretion in the matter, but is simply acting in conformity to the laws of

the state. There are many cases, without question, where suffering is entailed because children cannot go to work, not having complied with the rigorous laws. Sometimes it is widowed or deserted mothers with children to support, who desire the help of a girl or boy thirteen or fourteen years of age to assist in providing bread and shelter for the family. Sometimes the father who in health earns barely enough to provide the necessities of life for himself and family gets sick or is injured, and needs temporary help from his children that they may not suffer, or that he may not be compelled to seek the aid of charity. Again, it is the child himself, orphaned, with no one to support him, who could support himself had he but the certificate; without it, he becomes a charge to the town.

I am not drawing upon fiction while I write of these matters. A number of persons come before me for certificates every year with cases similar to those cited. Some of the children for whom certificates are sought can read, write, and cipher, but not being of the proper age cannot have certificates. I do not intend to enter in a discussion here of the justice or the wisdom of the compulsory educational laws that are on our statute books. I have not the space or time for it. I am attempting to show that this subject is growing to such an importance, and demands so much of my time, as well as that of my clerk, that it should be better understood. I cannot but feel, however, that there must be a limitation to the right which a state has to deprive needy parents of the assistance of their children, that the public at large may be benefited, without the state itself recompensing the parents for the service of such children. I observe that a bill has already been introduced into the present legislature raising the school age to fifteen or sixteen years old.

In addition to the certificates that are required of all persons under sixteen years of age before they can be em-

I. W. BENJAMIN SCHOOL.

PRIMARY ERECTED 1891. SEATING CAPACITY 600.

ployed, and which can only be issued from my office, all illiterate minors over fourteen who do not attend the day schools are compelled to attend the evening schools. So each of these certificates are obliged to be issued and kept on file at the mills or other places of employment. These certificates of employment are sent to the schools once each week for the signature of the principals, as the law requires an average attendance from each pupil of 70 per cent. at school that he may work. The names of the delinquents are reported each week by the various principals to my office. It then becomes the duty of the assistant truant officer to look up these cases and warn them to attend. In case of failure to heed this warning the cases are reported to me; the certificate is taken away, the delinquent discharged, and the certificate withholden until the delinquent promises that the offence shall not be repeated.

There are other features of this business that take time and thought, upon which I will not enter. Enough has been said to show that this one branch of the school machinery alone is becoming burdensome, and requires time that is needed for more purely educational matters.

The full text of the laws relating to children and illiterates has been given in previous Reports, and I will not repeat it here. I will close by expressing the hope that if the school age is raised to fifteen or sixteen years that some discretionary power will be granted school authorities in granting certificates, or that the State will make the necessary provision for recompensing indigent parents for the services of those children who are forced into the day schools after they are thirteen years old.

TEACHERS.

The two most important considerations in any school system are the school buildings, together with their surroundings, and the teachers. President G. Stanley Hall, of Clark University, one of our most distinguished educators, whose opinions are authority in educational circles, both in this country and abroad, is inclined to accord supreme importance to the first two because of their intimate connection with the physical and moral welfare of the children. For, as he has well said, "What shall a man give in exchange for his health?"

I do not intend to enter upon a discussion of the comparative value of the two factors mentioned above in connection with school systems. Award what place one may to the first of these, I do not fear that any one will attempt to gainsay the statement that the character of any system of schools will depend upon the character of the teachers in those schools. How important it is, then, that the standard for admission to the teaching corps be a high one, and that all good citizens lend their influence to secure this desired end. It rests with the parents of the country to elevate and sustain the profession of teaching, and in no other way can they secure for their children a greater blessing. But this cannot be done by finding fault with individuals, neither by blind criticisms nor by the exercise of sentiment. The causes that produce poor teachers must be sought out and remedied. A study of what has been done in the older and powerful nations of the world to make teaching a liberal profession, and thereby to attract into it a high order of talent, will indicate many of the reasons why in this rich and enlightened country the teaching corps cannot compare with those of countries of far less wealth and resources.

It is a recognized fact that even in this state of Massa-

chusetts, where the teaching force averages higher than in any other state of the Union, the normal schools are obliged to maintain a comparatively low standard of admission in order to secure pupils enough to keep them running. There has as yet been established no normal school whose particular function shall be to take college graduates and train them for high school teachers. Yet we have our professional schools for clergymen, for doctors, for lawyers, and others. It is infinitely more important for the welfare of the people at large, in a democratic republic, that professional schools of a high order should be established for the training of teachers.

At this point I take the opportunity to make a personal explanation. My attitude toward the normal schools is entirely misunderstood, probably from a statement that I made in my Report of 1889. The statement was as follows: "The demand for better teachers, however, has increased rapidly within a few years. This is especially true in the East. The state normal schools fail at present to meet the demand, either in the number or quality of its graduates, and, in self-defence, the leading cities have been compelled to found schools in connection with their own systems, wherein those intending to teach in them may get some special training for their future work." I am accused from the above statement of being an enemy of normal schools. But instead of that I am their warm friend, and wish to see them multiply and flourish. And I say this without abating one jot or tittle my statement quoted above. I presume the whole misapprehension hinges on the word "quality," for none well acquainted with the facts will claim for an instant that the graduates from the state normal schools can begin to meet the demand for teachers. Certainly the quality of those who graduate from those schools are not the same. Some, before entering the schools, have had little more than a

grammar school education; some have no talent for teaching, and this is discovered only when they have left the school. There should be some way to test them in this last particular more fully before they leave the school. If the standard of admission was higher, and the means of testing the ability of those who were to graduate were on a better plane, there would be less failures among them and less cause for the statement made by me in my Report of 1889. In common with most superintendents, I prefer for teachers normal graduates to those who are not, other qualifications being equal. But I am not absurd enough to value a normal graduate above every one else, simply because he or she happens to be a normal graduate.

Those who are to teach should be prepared for the work by possessing good health. Too many who attempt the work are physically incapacitated at the start. It is not just to the children that such persons should be placed in charge of them. Again, those who are to teach should possess a disciplined and well-stored mind. And, more than all, they should be refined in manner and wholesome in character. Some one has well said that no one should teach whose manners were such as to prevent him from being acceptable in any refined home. There is nothing unreasonable in the demand that every teacher possess the above qualifications, and no one who would object to them ought to think for a moment of becoming a guide and educator of the young.

The School Board of this city has taken a high position on this question of appointing teachers. Candidates for positions in the teaching corps must be graduates of a high school or an academy. They must pass successfully an examination which covers quite a wide range of studies. They must then receive an acceptable professional training either in a training or normal school. Occasionally vacancies occur, and there are no candidates on the approved

list to fill them. In such cases the examination is waived under suspension of the Rules of the Board; but then only teachers of tried and successful experience are accepted as candidates. This, in the main, is the standard adopted by the committee some three years ago. The result is being felt already in the schools, and will add constantly to their strength.

Six resignations and three deaths have occurred in the corps within a year. Fifteen appointments have been made. The excess of appointments over the resignations and deaths is due to the increase in the number of pupils.

The present spirit of the corps is excellent. Many of the teachers are seeking constantly to strengthen and broaden their knowledge in various ways. They study educational literature, seeking the best methods of instruction; or they take special courses at the Swain Free School, that their intellectual appetites may be constantly whetted. A number have devoted a large part of their summer vacations to the study of advanced methods of teaching as propounded by expert educators. All these signs of intellectual activity are most welcome, and should extend until every teacher is fully alive to the fact that mental growth is as necessary to intellectual life as physical growth is to physical life.

RESIGNATIONS.

Lena B. Chubbuck,	Fifth Street Grammar school.
Lucy D. Ashley,	Middle Street Grammar school.
Emma B. Allen,	Parker Street Grammar school.
Annie M. Carpenter,	Darmouth Street Primary school.
Sarah E. Tuell,	I. W. Benjamin Primary school.
Susan C. Graffam,	Rockdale school.

TRANSFERS.

Emma A. McAfee,	from Parker Street to Fifth Street.
Grace H. Potter,	from Cedar Grove St. to Dartmouth St.
Anna I. Dexter,	from Parker Street to Acushnet Ave.
Julia A. Fay,	from Farm school to Clark's Point.

TEMPORARY ASSIGNMENTS.

Mary P. Tillinghast,	Clark's Point school.
Alice P. Terry,	Rockdale school.

APPOINTMENTS.

Mary M. Robinson,	Middle Street Grammar school.
Carrie E. Footman,	Parker Street Grammar school.
Regina M. Paull,	Parker Street Grammar school.
Elizabeth Bennett,	Thompson Street Grammar school.
Daisy M. Butts,	Thompson Street Grammar school.
Mary E. Pasho,	Maxfield Street Primary school.
Edith M. B. Taber,	Dartmouth Street Primary school.
Grace Covell,	Dartmouth Street Primary school.
Rachel L. Denham,	I. W. Benjamin Primary school.
Susan P. Diman,	I. W. Benjamin Primary school.
Mabel Bennett,	I. W. Benjamin Primary school.
Edith K. Weeden,	Cedar Grove Street Primary school.
Eleanor V. Tripp,	Cedar Grove Street Primary school.
Kate Sweet,	North Mill school.
Gertrude M. Robinson,	South Mill school.

In Memoriam.

Miss Sarah E. Field,	Died June 2, 1891.
Miss Abby F. Sullivan,	Died Oct. 29, 1891.
Miss Josephine Almy,	Died Jan. 5, 1892.

"Faithful unto the end" may well be said of these teachers. All of them were successful in their profession, and exceptionally true in the discharge of their duties. Their womanly characters won for them the love of their pupils, the respect of their fellow-teachers, and the confidence of the School Board. Resolutions were adopted by the School Board testifying to their worth and to their acceptable service.

PRIMARY SCHOOLS.

The Primary grades have had an increase in the average number of pupils belonging for the year of 303. This increase has necessitated the employment of seven additional teachers in this department. The average number of pupils belonging in these grades was 2826; the average number of pupils to a regular teacher was 48. If the distribution of pupils was uniform throughout the city this average number to a teacher would be a good proportion both for purposes of instruction and for economic reasons. But unfortunately it has not always been possible to prevent overcrowding by opening new rooms, or by transfers. At the time of writing, however, there is greater uniformity in the number of pupils to a teacher in these grades than at any time within the past four years at least.

The methods of instruction in primary schools have undergone a great change within the past decade. Those now generally in use are based on a more rational conception of the child nature than were those of the past. Even those teachers who have given no thought to the processes of mental development follow perforce in a perfunctory way the general trend. If every primary teacher would make a study of the psychological laws upon which all good teaching must rest, and would apply them, she not only would make less mistakes, but her efforts would be rewarded by the quickened interest of her pupils. It is of supreme importance that children in their earlier years be guided by skillful hands. The universal testimony of those who have had experience in the matter is that children who have had the skilled kindergarten training prior to entering the primary grades of school possess essential advantages over those who have not had such training. The feeling that has so long prevailed, that skill is not re-

quired to teach primary grades successfully, is rapidly disappearing, and by it the schools are being immeasurably strengthened.

I feel that on the whole these schools are in good condition. There are weak places in them, most assuredly. Supplying vacancies that occur among the teachers with graduates of our training school, rather than with untrained and untried teachers, as was done not many years since, is essentially beneficial. If these young ladies will continue their studies in the light of added experience, their influence will be felt more and more as the years go on.

It give me pleasure to record also that the methods of discipline are milder than formerly, while the prevailing order is fully as good. The number of cases of corporal punishment have been reduced fifty per cent. within two years. The difficulties of governing are increased from the fact that there are a good many pupils in these grades who have not had the advantages of our schools at the age when they are most amenable to their influences. These pupils range from ten to fourteen years of age. Their proper place, so far as age is concerned, is in the grammar schools. For the most part they are children of foreign birth, who have had no schooling whatever prior to entering our schools at an advanced age, or, having had such advantages in their own country, know but little English, if any. I am not sure but it would be a good plan to have a mixed grade in the large primary buildings for such pupils, where they should remain until they were fitted for the grammar schools.

A modification in the course of studies has been made for these grades within the year. A preliminary course in geography has been added. The study is to be entirely objective; the pupils are to use no text-books. For the first two years the work will be embraced under the language and observation work. During the next two years

PARKER STREET SCHOOL.

GRAMMAR. ERECTED 1853. SEATING CAPACITY 585.

it will also be taught in connection with the language and observation lessons, taking a stronger trend each year toward pure geography work.

I feel, after careful consideration, that it would be well also if the course was further modified by doing away with all teaching of number, except incidentally, for the first half of the first school year. I think the time can be spent to better advantage by devoting it to language work and to such lessons as will develop the powers of observation. I feel that the children would be as skilled in the use of numbers at the end of the four years' primary as now, better developed in the use of language, and with less friction in accomplishing it than at present.

GRAMMAR SCHOOLS.

The average number of pupils belonging in these schools the past year was 1535, an increase of 62. One teacher was added to the department. The average number of pupils belonging to a teacher throughout the city was 41.5. This is almost an ideal number, and if good work is not done it cannot well be attributed to the excess in the number of pupils.

There is not much to be said about these schools that is altogether new. There has been no marked change in the course of instruction. The teachers have managed to abate the corporal punishments, especially in two of the buildings, with no serious detriment to the pupils or to good order, that I can perceive. Some few, I suspect, still long to wield the birch more than they think public opinion would approve; but I do not believe they would be any happier for so doing, or that their pupils would be any wiser or better. It is desirable to appeal to the nobler instincts of the human race rather than to their baser ones, and I am loath to believe that there are many pupils

in our schools who cannot be reached by appealing to their love and honor rather than to their fear and shame. Parents can do much to make discipline easier by giving a strong moral support to sustaining the reasonable regulations. They do not always do this, but lend frequently willing ears to complaints made by their children, and criticise and blame the teachers without thoroughly understanding the situation. There is one other matter to which I wish to direct attention in this connection, and that is the abuse made by the children of the privilege of leaving the rooms during school hours. That it is abused there is no question, and the constant running out by so many is a serious hindrance to good work. When it is necessary, there should be no denial, but the attitude taken by some in the matter has rendered the teachers almost powerless to regulate it.

The instruction averages well with that of grammar schools in general. There is much that is good; there is some that is indifferent. The two questions of the day relating to elementary schools in this country that are the chief subjects of discussion are, "Shall the Grammar School Course be Shortened?" and "How Shall the Grammar School Course be Enriched?" Should I enter upon a discussion of those questions there would not be space for anything else in this Report, nor would I then be able to cover the field of controversy. My conviction now, however, is that it should not be shortened. If any way can be discovered by which the course can be enriched and made more productive, I am ready to welcome it. But we must proceed cautiously in uprooting the processes and traditions of generations, although the simple fact that they have endured for generations is not conclusive evidence that they are the best.

The New England Association of Colleges at a meeting last fall recommended the following changes in the grammar school curriculum:

1. "The introduction of elementary natural history in the earlier years of the programme as a substantial subject, to be taught by demonstration and exercises rather than from books."

2. "The introduction of elementary physics into the the later years of the programme as a substantial subject, to be taught by the experimental or laboratory method, and to include exact weighing and measuring by the pupils themselves."

3. "The introduction of elementary algebra at an age not later than 13 years."

5. "The offering of an opportunity to study French, German or Latin, or any two of these languages from and after the age of 10 years."

This is all that is asked. When the above recommendations were made known, those persons who have been proclaiming all along that the grammar schools were already undertaking too much must have been appalled. It is proposed to eliminate a certain amount of the arithmetic and geography to make room for these new studies.

But eliminate what you will, if the recommendations should be adopted in its entirety it would involve the reorganization to a certain extent of the whole school system. As to the first section, the reply might well be made that this has already been done in many places, and many others are working towards this end. As to the second section, it is feasible to teach a certain amount of physics in the grammar schools, and but few doubt the utility of it; but when it comes to teaching it by the experimental or laboratory plan, and to include exact weighing and measuring by the pupils themselves, the experience of teachers in our high schools give little encourage-

ment, even if there were time, teachers, and laboratories for the same. As for the studies proposed in the other sections, serious and perplexing questions arise at once as to their claims for a place in the grammar school course for the average pupil, beyond what is already done in geometry.

These are the questions to be settled in the future, if they are ever settled. All parties, however, appear to be united on one point and that is the necessity of improvement in the quality of teaching. Teachers must know more before they can teach much better. There is a movement all along the line to demand teachers who are better educated and better trained for their work; and going with this is the extension of trained supervision. I am glad to be able to say that the standard is as high in New Bedford as anywhere and the teachers equal to the best. A more careful and systematic supervision of the grammar teachers by the principals for the purpose of guiding and helping them is a means by which the efficiency of these schools could be increased. Every grade under the supervision of the masters should feel their influence as much as the highest one, but this is not the case. A preponderance of their time and thought is bestowed upon the out-going class rather than being evenly distributed throughout the grades. This reflection is not intended as a stricture upon our own schools alone; it is a general tendency that I believe to be wrong in principle.

ACUSHNET SCHOOL.

RURAL SCHOOL. ERECTED 1890. SEATING CAPACITY 150.

UNGRADED SCHOOLS.

Country Schools.—The appellation Country Schools is applied to five schools of the city. There were formerly six; but the Cannonville school has been transferred to the primary department for it is essentially a graded primary school. The Acushnet school is now so well graded and the line of work expected of it so similar to the grammar and primary grades that I am of the opinion that it would be well to classify that school with the graded departments. If that was done, there would remain but four schools which should be classified as Ungraded Country Schools, viz.: Clark's Point, North, Rockdale, and Plainville schools. These four last-mentioned schools are of the conventional rural school type, and present all the difficulties of administration common to the type. The number of pupils in them range from 20 to 40 of all ages and grades from the lowest primary to that next to the High schools. The teacher of one of these schools must then be skilled in both primary and grammar work, if the school is to prosper. She must possess more than ordinary executive ability, and the capacity for turning off work rapidly. Teachers possessing these qualifications cannot be induced to take these schools and undergo all the other inconveniences that must be undergone in residing in a rural district unless the remuneration is sufficient to make it an object for them. I therefore recommend that the maximum salary of these four schools be placed at $700 per annum, to be paid, however, only to the teachers whose excellency makes them worth the extra salary, and when no assistant is employed to relieve the regular teacher.

Two of these schools were without regularly appointed teachers for a large part of the year, and of course suffered thereby. I refer to the Rockdale school and the Clark's Point school. Both teachers resigned on account

of ill health; one after being absent from duty nearly if not quite a year. In the Fall Miss Julia A. Fay, who had been teaching the Truant school, after the abolition of that school, was transferred to Clark's Point. The Committee have decided also to place an experienced and successful teacher in the Rockdale school as soon as one can be found. The North school has been overcrowded for a great part of the year. A temporary assistant was tried in the school, but could not work to advantage. An appropriation has been granted with which to enlarge the building, but as yet nothing has been done. The animus of these schools is generally to be commended, and if thorough teachers can be kept in them, they can be lifted to a high degree of efficiency.

Mill Schools.—Two additional teachers have been placed in these schools, one in the North Mill school, the other in the South Mill school. Each school has been divided into a grammar and primary section. The average membership was 112 for the year or an average of 28 pupils to a teacher. This is a small number certainly, but the character of the schools warrant an excess of teaching force rather than too little. With the teachers now employed an additional number of 40 pupils can be accommodated, so that there will be no call for any further addition to the teaching force of these schools for years to come.

The prevailing order in these schools is good, and the teaching for the most part commendable. As the pupils go from here to work and not to higher grades of school the results of the teaching is subjected to less adverse criticism than in any other of the schools. I am confident, however, that the teachers do not allow that fact to abate their zeal or their sense of the moral responsibilities attached to their work.

EVENING SCHOOLS.

Elementary Schools.—The total enrollment of pupils in these schools for the year was 2043, a gain of 45. The average membership was 903, the average nightly attendance 678 or 75 per cent. of the average membership. The Statutes require an average attendance from illiterates of 70 per cent.; so it is safe to say that the requirements were more than met in this respect.

The teaching corps consisted of five principals and forty-three assistants. The number of pupils to a teacher averaged 20.5. As the distance seemed too great for those residing in the extreme south and south-west parts of the city to go to the Fifth St. school, three rooms were opened this year in the Thompson Street school for evening school purposes. Mr. Joseph Kennedy was transferred from the Merrimac Street school to the new school. The fact that the average membership in the Thompson Street school was 138, while the Fifth Street school showed a loss of only 36, indicates that there was a demand for the new school for other reasons than that of location.

The cost of maintaining these schools was $6465.90, an average of $7.18 per pupil. This is a decrease in the gross cost of $2904.18. But the schools were in session but 58 nights instead of 78 as last year. That is, they were in session three nights a week for twenty weeks, less two holiday nights, instead of four nights a week. The Committee made the change partly to reduce expenses, and partly because it felt that three nights' work each week was sufficient for pupils and teachers. I think the change has proven a wise one, and I trust it will be continued in the future.

The teaching service has been good, nearly all the teachers being tried and successful ones. The principals were

the same as last year with one addition, Miss Mary A. Kane, who was placed in charge of the Merrimac Street school, when Mr. Kennedy was transferred to the Thompson Street school.

The principals report successful work done. There is not so large a contingent of advanced pupils as is desirable. The illiterates form the great bulk of the schools, although the schools are graded so that the advanced pupils may be in separate rooms. Comparatively few of the advanced pupils who enter at the beginning have the perseverance to continue. Many discharge cards have been given to pupils who entered as illiterates either this year or last. These discharge cards certify to their having answered the conditions of the law, and few who secure these releases remain to pursue their studies farther. This is by reason of their want of ambition, however, rather than any acquired distaste for the schools.

Evening Drawing School.—This school varies but little in attendance from year to year. The enrollment for 1891 was 85 and the average membership 61, as compared with an enrollment of 84 and an average membership of 64 for 1890.

The expense of maintaining the school for the 40 nights was $892.36 or $16.22 per pupil. This year there were no unusual expenses. Last year the expense was $23.97 per pupil, owing to the purchase of a number of drawing instruments. But at the less cost per pupil this school is pro rata the most expensive department of the school system. If there were more pupils in each section the average cost would be materially lessened, and more could be accommodated in each without any addition to the teaching force. Yet the variety of subjects taught do not admit of any fewer teachers.

The Course of Study adopted last year has been contin-

ued. The work is in the main commendable. At the close of the term in the spring an exhibit of the winter's work was given in the rooms. It was visited by many interested persons and in certain lines the exhibit was good, considering the amount of consecutive work that has been done under the present corps of teachers. It is proposed to hold another at the close of the coming Spring term, when undoubtedly still better work will be shown.

HIGH SCHOOL.

The average number of pupils belonging for the year was 353, a gain of 21. The average daily attendance was 338, a gain of 23. The average number of pupils to a teacher, not including the special teachers, was 29+. Notwithstanding the strenuous efforts of the teachers to secure good attendance the showing of the school in this respect does not compare favorably with many of the best high schools. A per cent. of attendance in a New England high school of 92+ is nothing of which to boast. It usually runs from 95 to 98 per cent. Teachers deplore that pupils are allowed while attending school to engage in occupations and amusements that entail not only their absence but sap their strength, and divert their attention from their work to a degree which is often most harmful in its effects upon individuals, if not upon the school at large. The remedy lies with the parents upon whom is the obligation to impress upon their children a realizing sense of their duty to the school, which for the time being is their post of service.

Comparatively little friction has arisen by reason of the methods of government employed during the year. Judiciousness has marked the individual cases of discipline that have occurred.

There are no changes to note in the course of study.

The character of the teaching as a rule is of a high order. In certain directions it is capable of improvement, both specific and general. Among other things there is a tendency in certain lines of the work to excessive detail and drill in technicalities which is wearisome to pupils, the source of irritation to parents, and it is questionable whether it is productive of good. The few complaints that have come to my attention in the year have been within these lines. Teachers frequently wonder at the narrow mental vision of pupils. Is it not true that to outside observers this fault is not confined to pupils only? The microscopist performs a most useful part in the investigation of truth, but the world at large has not the time to engage in so close analysis. It accepts his generalizations, and acts upon them. I apprehend that it would be wise if, in teaching, this fact served as a guide.

Not a large proportion of the graduates of the school go to college. It is not apparent why there are not more. Those who have gone within the year confirm the efficiency of the teaching they have had in preparation by their standing and honorable mention. The only one who entered Harvard received an "honor" in mathematics. The three entering Brown University reached the first grade in all subjects, with one exception in one study, when the students were examined after entrance for division into four grades; and one took the first prize ($20) for excellence in preparation in French. Of the two young ladies entering Wellesley one was especially successful in Latin composition, while the English essay of the other was pronounced by the Professor of Rhetoric the best of those presented by the Freshmen at their first call. Two young ladies also who entered Dana Hall school have been highly commended for their training in English. These facts are significant as they point to excellence in instruction in several lines rather than one. But it also must be borne

in mind that those who go to college get the cream of the instruction in every high school, and it is not always safe to judge of the instruction as a whole by the results obtained in such cases, although I know that the standard of high schools in the past has been fixed largely on these results.

I desire before closing to express my belief that the mechanical details of the work of the teachers can be profitably lessened by modifying the system of marking for standing and promotions in the school. And what is still more important, I think the pupils would be benefitted thereby. But of this I intend to speak more fully under the head of Examinations and Promotions.

I append in figures several items that relate to the school which are of interest:

	Girls.	Boys.	Total.
Number who entered the High school, Sept., 1891, from the New Bedford public schools,	78	44	122
Number who entered during the year 1891 from other schools,	11	4	15
Grand Totals.	89	48	137

Number graduates of the year who are pursuing higher courses;			
College,	1	2	3
Swain School,	7	7	14
Harrington Training School.	8		8
Post-graduate studies in the High school,	12	5	17
Grand Totals,	28	14	42

Number of post-graduates connected with the school in 1891:			
Jan. to June, 1891.	16	4	20
Sept. to Dec., 1891,	12	5	17
Grand Totals,	28	9	37

Number pupils taking classical course, Dec., 1891:

Class IV.,	20	17	37
" III.,	5	8	13
" II.,	1	2	3
" I.,		2	2
Post-graduates,	2		2
Grand Totals,	28	29	57

Number pupils preparing for Medical School:

Class I.,		1	1
Post-graduates,		2	2
Grand Totals,		3	3

Number pupils preparing for Institute of Technology:

Class I.,		1	1
Class II.,		5	5
Grand Totals,		6	6

Total number pupils preparing for higher schools not including Swain School or Harrington Training school, 66

THE TRAINING SCHOOL FOR TEACHERS.

This school began operations two years ago last September. Four classes have graduated from it numbering twenty-six in all. A class of two will graduate in February next. A change in the regulations governing the school was made during the year by which the number of pupil teachers who may be connected with the school at any one time has been raised from twenty-four to twenty-seven. The limit in number of each entering class hereafter has been fixed also at nine. This last provision was made that the classes may be well balanced in the future. For it was found that the class applying for admission each September was much smaller than that applying in February. For instance, the number of candidates applying in September, 1890, was four, and but two gained

HARRINGTON MEMORIAL SCHOOL.

TRAINING SCHOOL. ERECTED 1889. SEATING CAPACITY 400.

admission; while the number applying in the following February was fifteen, fourteen of which passed the examination and were admitted.

Such a disparity in the numbers in the different classes worked badly in operating the school, as the senior class upon whose members rests the charge of the different class rooms, might not be large enough to supply the different rooms with an experienced teacher, and at the same time the lower classes might be very large. Where such an emergency has arisen, some of the graduates have been assigned temporarily to the school that no class should be in charge of an inexperienced teacher. This last term owing to the scarcity of teachers by reason of sickness in the regular corps and the increased attendance in the schools, this school suffered somewhat in common with several others in the city in its teaching force. Such a contingency is not likely to occur again very soon, if at all.

The complement of pupil teachers in the school is now full, twenty-seven in all, divided as follows: Senior Class, thirteen; Junior Class, five; Sub-Junior Class, nine. These young ladies are all graduates of a high school or its equivalent, and have passed successfully a rigid examination prior to their admission to the school. It is readily seen that the standard of admission is such as to exclude all who have not already acquired the foundation of a substantial education.

The school is doing much good in preparing teachers for the schools of the city. The principals of the different schools wherein the graduates have been assigned testify to the value of the preparation they have received. I find also that the testimony of the various principals of the city regarding the substitutes sent out from the school (and there are not a few during the year) is that they know what to do when they take a class, whereby there is much saving to the schools compared with the former methods

of supplying the temporary vacancies. That there should be individual differences is to be expected, but I have yet to know of an instance of a complete failure of either a graduate of the school, or of one sent out to substitute.

There seeems to prevail among a few persons the feeling that this form of school is an innovation and an experiment, in fact something of a pet scheme of mine, which I am bound to defend. Let me assure all such persons that they do both me and the school an injustice. Schools of this class have been maintained for years in a number of cities in this commonwealth as well as in other cities of New England, and they are growing in favor every day. But upon this phase of the subject I do not propose to dwell. The school was founded through an earnest conviction on my part and that of the Board that it was a feasible and practical method of increasing the efficiency of the teaching, even if not an ideal way, and I, at least, have had no occasion whatever for changing my mind.

There is another question that arises in connection with the school, and one that I approach with a realizing sense of its importance; it is the welfare of the pupils who attend it. I have heard the fear expressed that the pupils would suffer through the inexperience of the teachers and the frequent changes in the same necessitated by the plan upon which the school is founded. I have taken pains therefore to watch carefully the workings of the schools. My experience with this school, as well as with similar well-conducted schools elsewhere, confirm me in the belief that such fears are groundless. To begin with no inexperienced teacher is to have charge of a class room, if the plan of the school is carried out as required by the regulations governing it. The teacher must have served in the school a year as a student, an observer, and an assistant before she is placed in charge of a room. Again, by means of the assistants, pupils get more individual atten-

tion and assistance than in the ordinary school. And still further, a skilled principal and assistant principal are provided, who watch and guide most critically the methods of discipline and instruction throughout the whole school. One has but to visit the school frequently to become convinced of its excellent tone. He needs only to compare the mental attitude and condition of the pupils with that of other pupils in the city of similar grades if he wishes to be assured of the comparative worth of the instruction. I do not contend that there are no faults in the school, that mistakes are not made. What school is free from faults, and in what school are mistakes not made? I would go many a mile to see a perfect school, and would sit the humblest of disciples at the feet of the teacher. All that in justice can be expected of the school is, that the welfare of the pupils shall be as well promoted as in the average school of the city. That this is done, I am confident, and those members of the School Board who have observed the working of this school and compared it with that of similar grade throughout the city assure me that their convictions are the same.

Miss Stuart, the principal, found it necessary to apply for leave of absence toward the close of the fall term on account of ill health. She expects to be absent two or three months. I cannot commend too highly her worth to the school and her work since she has been with us. I trust that rest and change of climate may soon restore her strength and enable her to resume her duties. During her absence Miss Braley, the assistant principal, has acted as principal and performed the duties of the position with signal success.

In closing permit me to bespeak for the school the continued confidence and support of the Board, and the cooperation of those parents and other citizens who have the interests of the school system at heart.

A few statistics are appended showing in condensed form some items of interest connected with the school.

Number of pupil teachers enrolled during the year,	35
" " " admitted in February,	14
" " " " " September,	4
" " " graduated in February,	8
" " " " " June,	5
" " " in Senior class, Dec. 18, 1891,	2
" " " " Junior class, " " "	14
" " " " Sub-Jun. class, " " "	4
" days subtituting by pupil teachers,	159½
" " absence for other causes,	117¾
Total number days absence by pupil teachers,	277
Average number of pupil teachers belonging,	21
" daily attendance of pupil teachers,	20
" number Seniors and Juniors belonging,	12
" daily attendance of Senior and Junior classes,	11
" number of pupils belonging to the school,	297
Number of different visits by parents and others,	454

SPECIAL SUBJECTS.

Music.—This branch has been under the charge of the present supervisor for a year and a term. His work is efficiently done. There is some question, however, whether there is not too much technical drill required and at too early an age. I am certain from the best information that I can get, that much more technical drill in music is done in the lowest grades of the public school of this country than in Germany. The Germans are essentially a music-loving people. Yet pupils are not taught to read music in their schools for the first three or four years. A recent writer in the schools of Germany says "The ends sought in teaching singing, as given in several courses of study, are to sing with ease church chorals and the national songs. Incidental to this is the cultivation of a musical ear and taste, which may be the the foundation for advanced study and practice." Again he says, "One marked

characteristic of the singing in all the grades is the sweetness and purity of tones. In the lower grades soft and low tones are constantly exacted." Without venturing to express a decided opinion here as to the merits of the two methods, I offer the one that contrasts with ours that the question may receive future consideration by the Board.

New singing books were put into the fifth and sixth grades of the grammar schools during the year. The supervisor reports, that good results are already apparent from the change. He states also that the books and charts used in the eleventh grade primary are unsuitable as figures are printed under the notes. In the new editions the figures are not given, and he recommends that the old editions be replaced by the new at an early date. He also recommends the Second Music Reader, Pt. I., for use in the tenth grade, that the pupils may study the divided beat.

The following extracts from his report will give a fair idea of the work in the different grades:

"The thirteenth grades have studied the scale chordwise, instead of the old way (step wise) and have now the full scale to work with. The pupils can sing quite readily at sight, simple exercises in any major key, the teacher pointing the time for them. They have learned a number of choice rote songs, and in the last term of this year will study the easiest exercises on the chart."

"The twelfth grades have reviewed the work of the thirteenth grades as outlined above, and, in addition, have made a study of each sound of the scale (in all keys from the staff) through exercises prepared by the regular teachers from suggestions I have given them. These grades will finish the first series of charts this year."

"The eleventh grades made a study of each sound of the scale in the fall, and now are all using the First Music Reader studying only the songs, that is, those exercises

having words. They learn the pitch of all the notes on the staff, the signatures of the keys, the tune names, and to beat the time. They are doing good work."

"The tenth grades are doing the same kind of work as the eleventh, except they take the more difficult songs in the last half of the book."

"The ninth grades are doing better than last year, and I intend to get them 'broken in' to two-part singing the last term of this year. Two-part singing should be begun not later than the fourth or fifth school year."

"The eighth grade is where I found two-part work first begun in these schools. It is an important step in the course, and requires care and time to get the parts well settled. I am glad to say that the teachers are working faithfully on this and generally with good results."

"Three-part singing is begun in the seventh grade, and some very good work is done."

"The sixth and fifth grades are doing much better work since the introduction of the new book. The parts are quite well developed, and I am much pleased with the way the pupils take hold of the work."

"There is an improvement in the singing of the High School, but it is not yet what it ought to be. The parts are not as clearly brought out as they should be."

"In closing, I wish to say that I have found the teachers ever ready to carry out my ideas and suggestions. They have worked faithfully, and whatsoever credit is due for the good results accomplished, the largest share belongs to them."

Drawing.—The educational drift is toward industrial training. This is taking decided form in the curricula of the common schools and in the foundation of many private institutions for this kind of teaching. As drawing is the basis of instruction in the industrial arts it is assuming each year greater importance in the schools.

New Bedford was one of the first places in the country to recognize its importance in education, and to make it an essential part of its school course. It is needless for me to dwell upon its history in our schools. That has been done in preceding Reports. I will simply call attention to the fact that notwithstanding the length of time that has elapsed since it was first engrafted upon the schools of this country and this city, it is yet scarcely out of the experimental stage. The general plan of teaching it in the common schools is, however, becoming better determined each year.

For two years or more a course of study in which the parts are well related has been in process of adjustment to the work of the different grades. The good results are being evidenced. Each year the pupils who graduate from the grammar schools show greater knowledge of the underlying principles of drawing and possess more skill in execution. I believe that in a year or two more no more difference in acquirement will be shown by the pupils in this study than in others. For those who attend the High school, the study is optional after the first two years. During the past year eight have elected this study for the third year and two for the fourth. The work in the High school is more closely related to that of the lower school than formerly. The teacher of the subject in that school and the Supervisor of the work in the lower schools are in accord as to methods and aims.

The teachers in the lower schools are becoming more familiar with the work each year. The Supervisor holds grade meetings for purposes of instruction and general direction. The plan of work is determined for each grade in this way, and the result is more unity in it in corresponding grades throughout the city. There are defects most certainly for which I think there is a remedy, at least in part. This is not the place, however, to discuss

them. But, I believe after all things are considered, the subject is on a better plane than ever before.

Sewing.—There is not much that requires consideration in regard to the sewing. A course of study has been prepared within the year and put in operation. It is not yet adjusted to quite the best advantage. The same teachers are in charge of the work as for several years past. More time is given by both of the assistants than formerly owing to the increase of pupils in the schools. The results compare favorably with those secured in other cities. I think more of the material employed should be furnished by the city. Each school building should be equipped with the necessary utensils needed in the work instead of requiring pupils to bring them from their homes. This is a required study, and the city should supply as far as practicable all that is necessary for successful work.

Cooking.—A cooking school as a part of our public school system has been determined upon. When a suitable building is available it will be put into operation. Probably nothing will be done in the matter until the Kempton Street school house is built.

I regard the extension of the curriculum still further into the sphere of manual training as an important action of the Committee. It is intended that the girls in the two highest grades grammar shall form the classes for the school. A certain number will report for duty at the cooking school each half day. Each pupil attending the school will thus get a half day's instruction every two weeks or twenty lessons a year. The experience in those places where cooking schools have been established in connection with the public schools is that the time given by the girls to the cooking school does not appear to affect their standing in their other studies.

With the sewing, drawing, and the cooking, the girls in the lower schools will have valuable instruction in three

lines of manual training. I sincerely hope that instruction in wood-working will be provided for the boys of the grammar grades. It would be valuable training for all, but especially for a large class of boys to whom school work is now irksome. By this line of work, a three fold object is accomplished. First, it gives physical exercise and training; second, it engenders habits of close observation and accuracy in execution; third, the moral effect produced is wholesome in that a vent is given for activities that are frequently the source of mischief, and cause friction with the teachers; and more, when not in school, the knowledge of tools gained there will cause many a boy to busy himself with making his own playthings or other articles, instead of idling away his time acquiring habits of discontent or worse ones. What to do with their boys when they are out of school is a matter of solicitude to many parents. I have recommended in previous Reports the extension of manual training into the High School. I renew that recommendation here.

Physical Training.—I wish some system of physical training might be adapted for use in our schools. Physical exercises are practiced in all the grades from the lowest primary to the highest class of the High school. But it is only in the High school that any real physical training is done. The military drill furnishes most excellent training for the boys. The effect is soon noticeable in their firm tread and erect carriage. The girls, who need it more, get no similar training. Their dumb bell exercises are good but do not give a systematic training.

The Swedish system of gymnastics is the one adopted in Boston and many other places by the school committees after giving much thought to the subject and making careful investigations.

At the beginning of this year I engaged a graduate of the Boston school of Swedish gymnastics to give a short

course of illustrative lessons to the teachers of the city, that the character and object of the exercises might become known to them. I think the majority became sufficiently acquainted with the nature of the exercises to realize their worth and practicability. I recommend that this question be taken under advisement by the Board.

THE PEDAGOGICAL LIBRARY.

This library was established by the School Committee with the hope and expectation that the teachers would avail themselves of its privileges and do some professional reading. If the patronage given it so far measures the amount of such reading but little comparatively is done. I hope that it is not so, and I am fain to believe that it is not.

Forty-six different teachers only were credited with taking even one book from the library the past year. A contingent of the teachers to my personal knowledge are earnest in their desire to comprehend the underlying principles of teaching, and by both professional and general study are seeking to qualify themselves for still better work. Probably there are many others of whom I do not know. I fear there are some who are indifferent in the matter, and do not realize its importance.

No.	Title.	Author.
1.	The History of Pedagogy	Compayre.
2.	The Elements of Pedagogy	White.
3.	Systems of Education	Gill.
4.	John Amos Comenius	Laurie.
5.	Essays on Educational Reformers	Quick.
6.	Particular Systems of Education, Pt. III	Resenkranz.
7.	Higher Schools and Universities in Germany	Arnold.
8.	Some Thoughts Concerning Education	Locke.
9.	Emile	Rousseau.
10.	Leonard and Gertrude	Pestalozzi.
11.	Levana	Richter.

12. The Education of Man . . . . . Froebel.
13. Education . . . . . Spencer.
14. Lectures and Annual Reports, Vol. I . . Mann.
15. Lectures and Annual Reports, Vol. II . . Mann.
16. Lectures and Annual Reports, Vol. III . Mann.
17. Lectures on the Science and Art of Education . . . . . Payne.
18. The Philosophy of Education . . . . . Tate.
19. The Elements of Pedagogy . . . . . White.
20. On Teaching: It's Ends and Means . . . Calderwood.
21. The Principles and Practice of Common School Education . . . . . Currie.
22. Lectures on Teaching . . . . . Fitch.
23. Lectures on Teaching . . . . . Fitch.
24. Methods of Historical Study . . . . . Freeman.
25. Methods of Teaching History . . . . . Hall.
26. How Shall My Child be Taught . . . . . L. P. Hopkins.
27. Theory and Practice of Teaching . . . . Page.
28. Talks on Teaching . . . . . Parker.
29. Art of School Management . . . . . Baldwin.
30. Art of School Management . . . . . Baldwin.
31. School Management . . . . . Landon.
32. On Teaching Geography . . . . . Geikie.
33. Education and Educators . . . . . Kay.
34. Schoolmaster . . . . . Ascham.
35. Outline Study of Man . . . . . Hopkins.
36. School Economy . . . . . Wickersham.
37. School Room Guide . . . . . DeGraff.
38. Manual of Method and Organization . . . Robinson.
39. Lectures on Geography . . . . . Strachey.
40. The Action of Examinations . . . . . Latham.
41. Object Lessons . . . . . Walker.
42. The True Order of Studies . . . . . Hill.
43. Theory and Practice of Teaching . . . . Thring.
44. School Journal, Vol. I. . . . . Mann.
45. " " " II . . . . . "
46. " " " III . . . . . "
47. " " " IV . . . . . "
48. " " " V . . . . . "
49. " " " VI . . . . . "
50. " " " VII . . . . . "
51. " " " VIII . . . . . "
52. " " " IX . . . . . "
54. " " " XI . . . . . "
55. " " " XII . . . . . "

56. School Journal, Vol. XIII . . . . . Mann.
57. " " " XIV . . . . . "
58. Methods and Aids in Geography . . . . King.
59. Methods and Aids in Geography . . . . King.
60. Contributions to the Science of Education Payne.
61. Power and Authority of School Officers and Teachers . . . . . .
62. Power and Authority of School Officers and Teachers . . . . . .
63. Compayre's Lectures on Pedagogy . . . Payne.
64. Rosmini's Method in Education . . . . . Grey.
65. Bibliography of Education . . . . . Hall.
66. Lectures to Kindergartners . . . . . Peabody.
67. Early Training of Children . . . . . Malleson.
68. Habit in Education . . . . . Hall.
69. Modern Petrography . . . . . Williams.
70. The Study of Rhetoric . . . . . Genung.
71. English in the Preparatory Schools . . . . Haffcut.
72. English in the Schools . . . . . Woodward.
73. How to Teach Reading . . . . . Hall.
74. The Study of Latin . . . . . Morris.
75. Mathematical Teaching . . . . . Safford.
76. How to Study Geography . . . . . Parker.
77. Studies in Pedagogy . . . . . Morgan.
78. Educational Mosaics . . . . . Morgan.
79. Elements of Psychology . . . . . Hewett.
80. Topics in Geography . . . . . Nicols.
81. Compayre's Lectures on Pedagogy . . . Payne.
82. Notes of Lessons for Young Teachers . . Taylor.
83. Geography Teachings and Land Modelling Frye.
84. Geography Teachings and Land Modelling Frye.
85. How to Teach Language . . . . . Metcalf.
86. How to Teach Geography . . . . . Carver.
87. Arithmetic in Primary Schools . . . . . Dunton.
88. Cyclopædia of Education . . . . . Kiddles & Schem.
89. Orbis Pictus . . . . . Comenius.
90. Free Schools of the United States . . . . F. Adams.
91. Prosperity or Pauperism? . . . . . Earl of Meath.
92. Outlines of Psychology . . . . . Sully.
93. Primary Education . . . . . Jacobi.
94. Order of Exercises in Elocution . . . . . Parker.
95. Life and Education of Laura D. Bridgman Lamson.
96. School Inspection . . . . . Fearon.
97. True Order of Studies . . . . . Hill.
98. Kindergarten Culture . . . . . Hailman.

99. Education and School . . . . . Thring.
100. Reminiscences of Froebel, by Von Bulow { Translated by Mrs. Horace Mann.
101. Education in its Relation to Manual Industry . . . . . McArthur.
102. Schools and Studies . . . . . Hindsdale.
103. The Quincy Methods . . . . . Partridge.
104. The Teacher . . . . . Blakiston.
105. Reports on Elementary Schools . . . . . Matthew Arnold.
106. Addresses on Educational Subjects . . . Laurie.
107. Scientific Industries Explained . . . . . Watt.
108. The Teacher . . . . . Abbott.
109. Development of the Intellect . . . . . Preyer.
110. Memory—What it is and how to improve it . . . . . Kay.
111. Methods of Teaching Geography . . . . Crocker.
112. Teachers' Manual of Object Lessons . . . Park.
113. Three Lectures on Education . . . . . Dr. Oppler.
114. Chips from a Teacher's Work Shop . . . Klemm.
115. First Three Years of Childhood . . . . . Perez.
116. Physical Education . . . . . Maclaren.
117. School Management . . . . . Kellogg.
118. Day Dreams of a School Master . . . . Thompson.
119. Autobiography of Froebel . . . . . .
120. Educational Theories . . . . . Browning.
121. A Tractate on Education . . . . . Milton.
122. Securing and Retaining Attention . . . . Hughes.
123. Three Essays—Study of English Literature . . . . . Blaisdell.
124. Old Greek Education . . . . . Mahaffy.
125. Locke's Conduct of the Understanding . . Fowler.
126. Gill's School Management . . . . . John Gill.
127. Cultivation of the Memory . . . . . .
128. Cultivation of the Senses . . . . . .
129. On Discipline . . . . . .
130. On the Use of Words . . . . . .
131. On Class Teaching . . . . . .
132. Hand book of Punctuation . . . . . Bigelow.
133. Book of Object Lessons . . . . . Lake.
134. Swedish System of Educational Gymnastics . . . . . Baron Nils Posse.
135. Compayre's History of Pedagogy . . . . Payne.
136. Pedagogy . . . . . Hewitt.
137. Courses and Methods . . . . . Prince.
138. Pestalozzi, His Life and Work . . . . . De Guimps.

139. Elementary Psychology . . . . . Baker.
140. Linder's Empirical Psychology . . . . . De Garmo.
141. The Manual Training School . . . . . Woodward.
142. Introduction to Shakespeare . . . . . Corson.
143. Teachers' Manual of Geography . . . . Redway.
144. Teachers' Manual of Geography . . . . Redway.
145. Insecta . . . . . Hyatt.
146. School Hygiene . . . . . Newsholme.
147. Astronomical Geography . . . . . Jackson.
148. Nineteenth Century Authors . . . . . Hodgkin.
149. The Reproduction of Geographical Forms Redway.
150. Natural History Object Lessons . . . . . Ricks.
151. Essentials of Method . . . . . De Garmo.
152. Industrial Education . . . . . Seidel.
153. A Conference on Manual Training . . . .
154. A History of Education . . . . . F. V. N. Painter, A.M.
155. The Rise and Early Constitution of Universities . . . . . S. S. Laurie, L. L. D.
156. The Ventilation and Warming of School Buildings . . . . . G. B. Morrison.
157. The Senses and the Will . . . . . W. Preyer.
158. Education in the United States . . . . . Richard G. Boone.
159. European Schools . . . . . L. R. Klemm, Ph. D.
160. Practical Hints for the Teachers of Public Schools . . . . . George Howland.
161. School Supervision . . . . . J. L. Pichard, LL. D.
162. Higher Education of Women in Europe Helene Lange.
163. A Text Book in Psychology . . . . . Johann Frederick Herbert.
164. The Mother, Play, and Nursery Songs . . Froebel.
165. The Paradise of Childhood . . . . . Edw. Niebe.
166. Methods in the Schools of Germany . . . John T. Prince.
167. Old Greek Life . . . . . J. P. Mahaffy.
168. Homer . . . . . W. E. Gladstone.
169. Logic . . . . . W. S. Jevous.
170. Classical Geography . . . . . H. F. Tozer.
171. Philology . . . . . John Peile.
172. History of Greece . . . . . C. A. Tyffe.
173. History of Europe . . . . . E. A. Freeman.
174. History of Egypt . . . . . F. C. H. Wendel.
175. History of Rome . . . . . M. Creighton.
176. Astronomy . . . . . J. N. Lockyer.
177. Botany . . . . . J. D. Hooker.
178. Chemistry . . . . . H. E. Roscoe.
179. Geology . . . . . A. Geikie.

180. Physiology. M. Foster. Hygiene . . . R. S. Tracey.
181. Natural Resources of the U. S . . . . . J. Harris Patton.
182. Geography . . . . . George Grove.
183. Physical Geography . . . . . Prof. Geikie.
184. English Literature . . . . . Rev. Stopford Brooke.
185. English Composition . . . . . John Nichol.
186. Political Economy . . . . . W. S. Jevons.
187. Mediaeval Civilization . . . . . G. B. Adams.
188. Roman Antiquities . . . . . A. S. Wilkins.
189. The Development of the Roman Constitution . . . . . Ambrose Tighe.
190. Greek Literature . . . . . R. C. Jebb.
191. Exercises in Wood-working . . . . . Sickles.
192. First Lessons in Wood-working . . . . . Alfred G. Compton.
193. History and Science of Education . . . . Shoup.
194. Graded Didactics. Vol. I . . . . . Shoup.
195. Graded Didactics. Vol. II . . . . . Shoup.
196. Chapters on Plant Life . . . . . Herrick.
197. The Three Pronunciation of Latin . . . Fisher.
198. Comparative Geography . . . . . Ritter.
199. Points of History . . . . . Lord.
200. Animal Life in the Sea and on the Land . Sarah Cooper.
201. Geographical Studies . . . . . Ritter.
202. Eclectic Physical Geography . . . . . Russell Hinman.

EXAMINATIONS AND PROMOTIONS.

What kind of examinations shall be given in the schools, how often they shall be given, by whom they shall be given, for what purpose they shall be given—these are questions that have been rife among educators for sometime, but more especially in recent years. Good has resulted from the agitation. It was not uncommon in the past for examinations to be given frequently in the schools, and by others than the teachers, upon the results of which promotions were based. They were not always in the line of good teaching. They were a source of dread alike to teachers and pupils. They resulted oft-times in a system of cramming as the work of the teachers and pupils were both judged from the percentages attained by the latter. At last a reaction set in, which may have

gone too far in some places in the other direction, but better that condition than the first.

Examinations are either oral or written. Both have their place and value when properly applied. Every recitation is in part an examination of the teaching as well as a test of the amount and kind of knowledge possessed by the pupils. Of this every teacher should be conscious, and if recitations are uniformly poor, it would be well for him to turn the search-light of criticism back upon himself, if he would discover where the fault lies.

The character of the examination given by Superintendent or Committee, and that given by the teachers should be different. The one should be given to determine the value of the teaching, both specific and comparative, as discoverable in the amount and kind of knowledge possessed by the pupils; while the examination of the teacher should be given more for the purpose of discovering the facts of knowledge retained by the pupils and their growth in power. But neither should be given with the primary object of determining promotion.

As the teacher must be the best judge of the attainments of the pupils under his charge, and of their individual capacities, his opinion should have much weight in determining their advancement. He should therefore make a careful study of each pupil; note his strength as well as his weakness; and, when the time for promotion comes, be influenced in recommending the pupil for advancement by the future as well as the past. Nor should any teacher, in determining his list of promotions, retard the advancement of a candidate only for fear of criticism from the teacher of the higher grade.

Promotions in the public schools as a rule are governed by too rigid rules. The provisions for advancement are not sufficiently elastic. The same discrimination is not made in the interests of the brightest pupils that is made

against the dullest ones. A just criticism made on the public school system is that all pupils must go through the same tread-mill. I earnestly wish that some plan might be adopted in our schools by which pupils capable of completing the course in less time than that required for the average pupil might do so. It is possible, provided there is unity of sentiment in the matter between teachers, Superintendent and Committee.

The general plan adopted for promotions in our city varies greatly as to the lower schools and the High school. In the lower schools promotions are under the direct supervision of the principals, and the general supervision of the Superintendent. In all grades below the one fitting for the High school, promotions are made virtually on the recommendations of the class-room teachers. The principals and Superintendent act simply in an advisory capacity. If a class-room teacher recommends a pupil for advancement on condition even, the pupil is usually given a trial in the next grade. If, after a month's trial, he proves incapable of doing the work his case is referred to the principal or Superintendent, or both, who, if they think best, can place the pupil again in the lower grade.

The regulation governing the admission of pupils to the High school is as follows: The principals meet the High School Committee and Superintendent in conference. Each principal submits three lists of pupils from his school. The first lists include the names of those pupils that are recommended without conditions; the second lists those pupils that are recommended conditionally; the third lists those pupils not recommended for promotion. The pupils of the first lists are usually advanced without debate: those on the second lists are taken under consideration, and usually advanced: those on the third lists are, as a rule, considered more carefully and individually. If it appears to the Committee that it would be the wisest

thing to do to advance any individual, although not recommended, there is nothing in the Regulations of the Board to prevent it. The examination given the highest grammar grade at the close of each year by the Superintendent is not given to control promotions.

But if a pupil is once in the High school the whole method appears to change. No pupil is to be sent back to the grammar school however inefficient he proves to be. Pupils are advanced from class to class on per cents, a total of 70 per cent for the year in all studies being required for regular promotion. These per cents are obtained by the daily or weekly marking of the teachers, as each may elect, and from examinations given five times each year, the examinations rating as one-third in making up the total averages. The comparative standing of pupils in their classes is determined also by these per cents.

There are serious objections to this plan of determining promotions and standing. First, it is cumbersome and unreliable; second, it creates an unworthy stimulus in pupils, turning their minds from the true ends of education; third, in its application a burden is inflicted upon teachers, whose time can be better employed than in computing pupils' mental acquirements in per cents; and more, injustice to individual pupils is often the result.

In defense of the first objection I will quote the argument advanced in a Circular of Information issued by the United States Commissioner of Education and prepared by Dr. Emerson E. White, of Cincinnati, Ohio. He says: "Persons who have had experience in promoting large classes of pupils know how difficult it is to give due consideration to two separate records. It may be proper to add in this connection, that it is not easy to discover the principles on which these diverse combinations of examination results and class standing are made, or the

facts which determine the comparative value of these two factors. Moreover, if the estimates of teachers are trustworthy, there would seem to be no necessity for combining them with examination results, and, if the examination results are reliable, they certainly need not be discounted by uniting them with the estimates of teachers. If both factors are unreliable, how can a reliable result be secured by their union ? This can only be true when the errors are in opposite directions; and why may they not be in the same direction?"

As to the second objection, I cannot do better than to quote again from Dr. White. In speaking of the influence of promotion examinations on teaching and study, he says, "They set up a low and alluring end for study—the attainment of examination marks—and they dissipate that natural desire for knowledge which is the source and inspiration of all true learning and of all real joy in study. The more the interest of pupils is focused on the examination as an end, the more they fall into the use of memoriter and mechanical methods of study. They work for per cents, they cram for per cents, and too often, as it is feared, they cheat for per cents." In the University of Michigan the marking system, class rank, honors, or prizes of any kind, except the diploma of graduates have been abandoned, and President Angell claims that the aggregate result is much better than under the old system.

I now come to a consideration of the third objection, loss of energy to the teacher and injustice to pupils. The true teacher seeking to develop character, power and culture in his pupils does not desire to be hampered by a ranking book. He realizes that his attention is divided between marking and teaching. If the pupil's standing and promotion depend upon his marks they should be made at the time of recitation, if they are to be at all accurate; if recorded but once a week or once a month

they are valueless so far as accuracy is concerned. Under the second form of recording the work, no matter how just teachers may desire to be, I do not believe it possible for them to mark a class—classes vary in numbers from twenty to fifty pupils– with fairness to the pupils.

In our High school there are but a few pupils in a class each year that are not above the limit set for promotion. Is it necessary that all this cumbersome and pernicious machinery be kept at work to determine whether those few pupils shall be advanced or degraded? Those pupils are just as well known to the teachers before look ingat the marks as after. I hear the feeling expressed sometimes that the standard of the school might deteriorate if the marking system was abandoned. I think this fear is unfounded. I do not wish to believe that the majority of the pupils work for per cents; if this is so the standard is false. It is not proposed that pupils should be advanced whether they are qualified or not; neither is it proposed to abandon all records, or examinations. Teachers know whether their pupils are doing excellent work, or good work, or simply passable work, or poor work. And, when it becomes necessary to record their knowledge, it can be so indicated. The record cards sent to parents may be made out in some such manner. Reasonable parents desire their children to do their duty. They will judge the school by what it makes their children, not by what marks it gives them. Those pupils who shirk can be just as well reached and stimulated without a marking system as with it.

I am just as interested to have the standard of the school kept on a high plane as any one. It is far from my wish to propose any measure that would make the work of the teachers any more burdensome or that of the pupils any less thorough. My wish is, if possible, to lessen the useless labor of the teachers, whose attainments

I respect and whose worth I am only too glad to commend. And at the same time I desire to free the pupils from an unworthy stimulus that is the source of more than one evil.

Examinations and daily markings have been abandoned for purposes of promotion in our lower schools. Has the time not come for abandoning them in the High school also? Examinations should continue to be given in all grades, but let them be teaching tests, not promotion tests. Let them be both oral and written and searching in their nature. Let them be tests of the pupils' work and also tests of the thoroughness of the instruction. They should not be given at stated intervals, but as circumstances suggest their need, and for a definite purpose. They should be given chiefly by the teachers, who would do well to remember, that "of the four-fold object of education—virtue, wisdom, good manners, and learning—the last alone can be fairly tested in examinations."

CONCLUSION.

We are passing through a period that is remarkable for the agitation of questions that relate to social interests. The complexity of human affairs, which is the outgrowth of modern life, is creating issues most perplexing to solve, and for which history itself supplies little guidance. The "New World" while enabling mankind to throw off the shackles of social bondage with which it was enthralled in the "Old World," has, at the same time, opened up vistas that disclose new dangers and grave responsibilities. These have multiplied with astonishing rapidity within the last half century.

The policy of governments, the modes of warfare, the methods of conducting financial and commercial operations

have changed greatly to meet the new conditions, and will continue to change.

The conservatism of the school world, however, has been slow to respond to the changed life of the greater world that surrounds it. This has been due more to a realizing sense on the part of the administrators of the schools of the far-reaching effects of any false move in the line of seeming progress rather than to any settled conviction against a change in the plan of education. The war between the Sciences and the Classics which culminated in recent years has resulted in the enthroning of the former in the educational world vested with almost, if not quite equal privileges of dignity and honor as the latter.

And now comes a third contestant for recognition, Manual Training. It is really the offspring of Science and the Material world. It represents a demand for the closer connection of the schools with the practical life of the day. The question seems to be already settled as to its future trial. The adaptation to existing conditions though rapidly progressing will take time to perfect, and the results must lie in the future. I have faith that it is a move in the right direction, that will broaden and strengthen the usefulness of the schools without impairing their work in other lines.

The schools of our city have ranked well in the past. The are in most excellent condition at the present time. They are prepared to reach out into these new lines of work, and are already doing so. When the decay of a former industry, in which this city was *facile princeps*, called for a change in the business pursuits of her citizens, it was made, and with such wisdom and energy that New Bedford is becoming as famous in her new industries as she was in her old. And she must not be unmindful that as the success of her whaling fleets depended on the seamanship of her captains and sailors, so must the success

of her manufactures depend on the mechanical skill and ingenuity of her artisans. Her schools should supply her skilled labor, and, if they are to do it, they should excel in those lines which will make it possible.

Respectfully submitted,

WM. E. HATCH,

Superintendent of Schools.

New Bedford, Mass., Dec. 31, 1891.

LIST OF TEACHERS.

HIGH SCHOOL.

Summer St., between Mill and North Sts.

Grade.		Residence.	Salary.
	Ray Greene Huling, Principal,	195 Cottage street,	$2,750
	Chas. T. Bonney, Jr., Sub-master,	121 Washington "	1,600
	Chas. R. Allen, Science Teacher,	1 Lincoln "	1,500
1	Sarah D. Ottiwell, Assistant,	74 Kempton "	1,000
2	Elizabeth P. Briggs, "	366 Union "	900
2	Lydia J. Cranston, "	81 North "	900
3	Lucretia N. Smith, "	72 Foster "	900
3	Mary E. Austin, "	214 Kempton "	900
3	Mabel A. Spooner, "	12 Morgan "	550
4	Helen L. Hadley, "	196 Grinnell "	700
4	Emma K. Shaw, "	72 High "	850
4	Mabel W. Cleveland, "	81 North "	700
	Florence Cleaves, Drawing Teacher,	35 Eighth "	550
	John K. McAfee, Military Instructor,	72 School "	300

GRAMMAR SCHOOLS.

FIFTH STREET:

Fifth St., corner of Russell St.

	Allen F. Wood, Principal,	111 Acushnet Av.,	1,900
5	Lydia A. Macreading, Assistant,	17 Bonney St.,	600
5	Harriet F. Hart, "	233 Acushnet Av.,	600
6	Sarah E. Stoddard, "	352 County street,	600
6	Mary E. Allen, "	25 Madison street,	600
7	Emma A. McAfee, "	72 School street,	600
7	Janet Hunter, "	55 North Sixth street,	600
8	Blanch W. Sheldon, "	169 Union street,	500
8	Mary A. Kane, "	157 Grinnell street,	600
9	Grace L. Carver, "	147 Acushnet avenue,	475
9	Nancy H. Brooks, "	135 Fourth street,	550

MIDDLE STREET:

Summer St., between Elm and Middle St.

	George H. Tripp, Principal,	Fairhaven,	1,900
5	Agnes J. Dunlap, Assistant,	117 Hillman street,	600
6	Katharine Commerford, "	634 County "	600
6	Etta M. Abbott, "	103 School "	575
7	Lucy B. Fish, "	64 Smith "	600
7	Mary M. Robinson, "	25 Chestnut "	450
8	Clara B. Watson, "	37 Fifth "	600
8	Maria B. Clark, "	131 Chestnut "	575

Grade.		Residence.	Salary.
9	Mary R. Hinckley, Assistant,	111 High street,	$ 600
9	Clara S. Vincent, "	233 Middle "	600

PARKER STREET:

Parker St., near County St.

	Charles E. E. Mosher, Principal,	92 High street,	1,900
5	Carrie E. Footman, Assistant,	72 State "	475
5	Anna J. Jennings, "	115 Maxfield "	600
6	H. Jennie Kirby, "	50 Hill "	525
7	Martha A. Hemenway, "	5 Lincoln "	600
7	Regina M. Paul, "	29 Parker "	450
8	Mary W. Leymunion, "	83 School "	600
8	May L. Petty, "	22 Pope "	550
8	Mariana N. Richmond, "	34 High "	550
9	Mary E. Sturtevant, "	220 Summer "	550
9	Lizzie E. Omey, "	63 Thomas "	500
9	Emily A. Delano, "	East Freetown,	525

THOMPSON STREET:

Thompson St., corner Crapo St.

7	Katharine N. Lapham, Principal,	Corner Union and Sixth Sts.,	1,000
8	Cora B. Cleveland, Assistant,	81 North street,	450
8	Elizabeth Bennett, "	46 State "	450
9	Mary A. Macy, "	72 Bedford "	600
9	Daisy M. Butts, "	116 Willis "	450
13	Leonora B. Hamblin, "	South Orchard "	450

HARRINGTON TRAINING SCHOOL:

Court St., corner of Tremont St.

	Josephine B. Stuart, Principal,	464 County street,	1,300
	Anna W. Braley, Assistant,	619 County "	800
	Sixteen training teachers,—Seniors $4 per week; Juniors $3 per week.		

PRIMARY SCHOOLS.

ACUSHNET AVENUE:

Acushnet Av., near Grinnell St.

10	Jane C. Thompson, Principal,	194 County street,	650
11	Sarah E. Kirwin, Assistant,	101 South Sixth "	550
12	Hattie L. Finlan, "	186 County "	550
12	Clara C. M. Gage, "	78 Mill "	500
13	Caroline S. Silva, "	81 Washington "	475
13	Susan M. Lucas, "	167 North "	550
13	Anna I. Dexter, "	11 Franklin "	450
13	Grace Covell, "	128 School "	400

I. W. BENJAMIN SCHOOL:

Division St., between Acushnet Av., and Second St.

Grade.		Residence.	Salary.
	Jane E. Gilmore, Principal,	245 Acushnet Avenue,	$ 775
10	Susan M. Tompkins, Assistant,	2 Court street,	550
10	Nellie W. Davis, "	49 Bedford "	550
11	Helen J. Kirk, "	27 Franklin "	550
11	Rachel L. Denham, "	366 Cottage "	425
12	Sarah A. Winslow, "	315 County "	450
12	Helen C. Allen, "	170 Grinnell "	550
13	Annie C. O'Connor, "	299 County "	550
13	Mary Barstow, "	South Orchard "	475
13	Annie L. Brownell, "	13 Sherman "	425
13	Susan P. Diman, "	46 State "	400
13	Mabel Bennett, "	114 High "	400

CEDAR STREET:

Cedar St., corner of Maxfield St.

10	Annie S. Homer, Principal,	117 Hillman street,	625
11	Bessie P. Peirce, Assistant,	124 Hillman "	550
12	Abbie D. Whitney, "	59 Hill "	550
13	Willetta B. Nickerson, "	2 Morgan "	525
13	Annie L. Edwards, "	62 North "	500
13	Mabel L. Hathaway, "	5 Arch "	400

CEDAR GROVE STREET:

Cedar Grove St., near Acushnet Av.

13	Lucy F. Clark, Principal,	131 Chestnut street,	650
13	Mary J. Eldridge, Assistant,	200 South Second "	550
13	Eleanor V. Tripp, "	12 Sherman "	400
12	Edith K. Weeden, "	614 County "	425
12	Annie G. Brawley, "	23 Washburn "	475
11	Carrie A. Shaw, "	Belleville,	500
10	Flora E. Estes, "	535 Purchase "	500

CANNONVILLE:

Rockdale Av.

10 and 11	Adelaide J. McFarlin, Principal,	152 Kempton street,	550
12 and 13	Lillie C. Tillinghast, Assistant,	273 Kempton "	500

DARTMOUTH STREET:

Dartmouth St., corner of Hickory St.

10	Isadore F. Eldridge, Principal,	28 Sherman street,	650
11	M. Eva Schwall, Assistant,	11 Bonney "	550
11 and 12	Edith M. B. Taber, "	82 Walden "	400
12 and 13	Annie F. Smith, "	18 Bonney "	425
13	Grace H. Potter, "	4 Orchard "	500
13	Sarah H. Kelley, "	24 Seventh "	550

FOURTH STREET:

Fourth St., corner of Madison St.

Grade.		Residence.	Salary.
10	Sarah H. Cranston, Principal,	81 North street,	$ 650
11	Eliza H. Sanford, Assistant,	112 Fourth "	550
12	Sarah E. Sears, "	21 Griffin "	550
12	Annie L. Macreading, "	17 Bonney "	475
13	Alice A. Taylor, "	299 County "	425
13	Myra A. Leach, "	75 Sycamore "	425

LINDEN STREET:

Linden St., near Ashland St.

10	Elizabeth P. Spooner, Principal,	129 Hillman street,	600
11	Isabella Luscomb, Assistant,	245 Cedar "	550
12	Isadora Foster, "	48 Parker "	550
13	Lucy S. Leach, "	91 Maxfield "	550

MERRIMAC STREET:

Merrimac St., corner of State St.

10 & 11	Sarah H. Hewins, Principal,	111 Merrimac street,	600
12	Addie West, Assistant,	232 Pleasant "	550
13	Harriet S. Damon, "	223 Pleasant "	500

MAXFIELD STREET:

Maxfield St., corner of Pleasant St.

13	Mary B. White, Principal,	57 Foster street,	600
12	Annie E. Pearce, Assistant,	151 Hillman "	550
11	Bessie P. Nash, "	1121 Acushnet avenue,	525
10	Mary E. Pasho, "	169 Grinnell street,	425

WILLIAM STREET:

William St., between Sixth and Eighth streets.

10	Eleanor Commerford, Principal,	634 County street,	600
11	Mary J. Graham, Assistant,	12 Court "	550
12	Kate E. Cleary, "	61 Mechanics lane,	550
13	Amelia Lincoln, "	87 Walden street,	550

COUNTRY SCHOOLS.

ACUSHNET:

Acushnet Av.

Charlotte C. Carr, Principal,	56 Spring street,	700
Belle B. Wheeler, Assistant,	2 Mt. Vernon street,	500
Caroline O. Pierce, "	1 Spruce street,	500

CLARK'S POINT:

Julia A. Fay, Principal,	685 South Water street,	500

Grade.	Residence.	Salary.
NORTH:		
Mary I. Ashley, Principal,	Clifford,	$575
ROCKDALE:		
Lucy K. Hatch, Principal,	103 School street,	600
PLAINVILLE:		
Mary E. Haney, Principal,	Fairhaven,	500

MILL SCHOOLS.

NORTH:

In Cedar Grove St. School Building.

Emma R. Wentworth, Principal,	117 Hillman street,	$15.50 per week.
Kate Sweet, Assistant,	121 Kempton "	10.62 " "

SOUTH:

In Thompson St. School Building.

Lucy J. Remington, Principal,	493 County street,	$15.50 per week.
Gertrude M. Robinson, Assistant,	25 Chestnut "	10.62 per week.

SPECIAL TEACHERS.

DRAWING:		
Blanche I. George,	20 Seventh street,	$1,200
SINGING:		
F. H. Butterfield,	40 Chestnut street,	1,700
SEWING:		
Carrie H. Richmond,	33 Seventh street,	$550.00
Eliza A. Smalley,	71 South Sixth street,	295.00
Gertrude H. Leonard,	62 Fifth street,	393.28

EVENING DRAWING SCHOOL.

Florence Cleaves,	$250
George A. Stetson,	140
George H. Nye,	140

EVENING ELEMENTARY SCHOOLS.

FIFTH STREET:	
Oliver W. Cobb,	$9.00 per week.
Mrs. C. T. Johnson,	4.12 "
Grace H. Potter,	4.12 "
Nancy H. Brooks,	4.12 "
Annie F. Smith,	4.12 "
Alice A. Taylor,	4.12 "
Annie B. Parker,	4.12 "
Nellie H. Cook,	4.12 "
Julia A. Fay,	4.12 "
Belle Almy,	4.12 "

	Salary.
Sarah E. Stoddard,	$4.12 per week.
Jennie K. Terry,	4.12 "
Mary J. Graham,	4.12 "
Lizzie M. Briggs,	4.12 "
Julia C. Gifford,	4.12 "
PARKER STREET:	
George H. Tripp,	9.00 "
Agnes J. Dunlap,	4.12 "
Sarah L. Tallman,	4.12 "
Ida A. McAfee,	4.12 "
Mary F. Wilde,	4.12 "
Ethel Denham,	4.12 "
Regina M. Paul,	4.12 "
CEDAR GROVE STREET	
Allen F. Wood,	9.00 "
Robert Washburn,	4.12 "
Annie G. Brawley,	4.12 "
Grace Carver,	4.12 "
Nannie P. Slocum,	4.12 "
Daisy M. Butts,	4.12 "
Addie J. McFarlin,	4.12 "
Mary R. Hinckley,	4.12 "
Abby R. Johnson,	4.12 "
Sarah E. Kirwin,	4.12 "
Susie P. Diman,	4.12 "
Emma B. McCullough,	4.12 "
Carrie E. Footman,	4.12 "
Dora DeWolf,	4.12 "
Isabel S. Horr,	4.12 "
THOMPSON STREET:	
Joseph P. Kennedy,	7.50 "
Mrs. S. C. Whelden,	4.12 "
Janet Hunter,	4.12 "
Hattie L. Finlan,	4.12 "
Annie M. King,	4.12 "
Isadore B. Lee,	4.12 "
Lena B. Hamlin,	4.12 "
MERRIMAC STREET:	
Mary A. Kane,	7.50 "
Mary Crowell,	4.12 "
Blanche W. Sheldon,	4.12 "
Alice P. Terry,	4.12 "
Mabel L. Hathaway,	4.12 "

1892—CITY DOCUMENT No. 7.

Thirteenth Annual Report

OF THE

BOARD OF HEALTH,

City and Quarantine Physician,

OF THE

CITY OF NEW BEDFORD,

TO THE

CITY COUNCIL,

FOR THE YEAR 1891.

NEW BEDFORD:
E. ANTHONY & SONS, Incorp., CITY PRINTERS.
1892.

In Board of Aldermen,
July 14, 1892.

Received, ordered printed in the City Documents, and sent down for concurrence.

D. B. LEONARD,
City Clerk.

In Common Council,
7 mo. 14, 1892.

Concurred.

WM. A. MACKIE,
Clerk.

REPORT.

OFFICE OF THE BOARD OF HEALTH,
January, 1892.

To the City Council of the City of New Bedford:

GENTLEMEN,—The Board of Health herewith respectfully make their thirteenth annual Report.

Feb. 12, 1891. The sum of two thousand dollars ($2000) was appropriated to defray the expenses of the Board for the year 1891.

Nathaniel Hathaway, Chairman; W. N. Swift, Physician to the Board, and Quarantine Physician; T. W. Cook; William E. Macomber, Health Inspector; Louis H. Richardson, Inspector of Plumbing; Susie J. Small, Clerk. The last two hold the office under civil service rules.

April 17, 1891. *Ordered*, That all vessels arriving from foreign ports, between the first day of May and the first day of November, are directed to go into quarantine until visited by the Quarantine Physician. All pilots are required to observe and follow this order.

June 6, 1891. *Section* 1. No person shall hereafter erect, occupy, or use any building in any city for a stable for more than four horses, unless first licensed so to do by the Board of Health of said city, and in such case only to the extent so licensed.

Section 2. No person shall hereafter occupy or use in any city, any building for a livery stable or a stable for taking and keeping horses and carriages for hire or to let,

within two hundred feet of any church or meeting-house erected and used for the public worship of God, without the consent in writing of the religious society or parish worshipping therein.

Section 3. The foregoing provisions shall not be construed to prevent any such occupation and use authorized by law at the time of the passage of this act, to the extent authorized at that time.

Section 4. Any person violating the provisions of this act shall be punished by a fine of five dollars for each and every day such offence continues, and any court having equity jurisdiction may restrain any such erection, occupation or use, contrary to the provisions of this act.

June 26, 1891. *Voted*, To close this office Saturdays at one o'clock, during July, August, and September.

July 28, 1891. *Voted*, That on and after Jan. 1, 1892, all new plumbing work must be submitted to the hydraulic test before approval.

July 28, 1891. *Voted*, That on and after Jan. 1, 1892, in emptying privy vaults and cesspools, the Odorless Excavating System must be used.

Dec. 16, 1891. *Section* 1. Filing Plans and Specifications. No person shall proceed to construct, add to, or alter any portion of the drainage system of said buildings (except to repair leaks) until they have filed at the office of the Board of Health, upon blanks in such form as the Board of Health shall order, a notice of the work to be performed.

No person shall commence work on such drainage or plumbing until the plans are approved by the Board of Health. Plans and specifications will be approved or rejected within five days of the time of filing.

After a plan has once been approved, no alterations of the same will be allowed except on a written application of the owner.

"Whoever shall violate any provision of these rules shall be liable to a fine not exceeding one hundred dollars, and a like penalty for every day after the first that an offence shall be committed."

The number of privies removed during the year 1891, by order of the Board, was 25.

Following are the number of permits granted by the Board during the year 1891: To empty privy vaults and cesspools, 38; to enter sewers, 419; to reinter bodies, 107; livery and boarding stables, 12.

The number of applications for keeping swine during the year 1891 was 68. Of this number 66 were granted.

NATH. HATHAWAY, Chairman.

Following is an abstract from the report of the Health Inspector, William E. Macomber:

New Bedford, January, 1892.

Board of Health:

Gentlemen,—As Health Inspector for the past year, I beg leave to make the following report:

Defective and overflowing vaults and cesspools, 166.
Defective sink drains, 41.
Offensive privy vaults, 82.
Filthy cellars and yards, 35.
Filthy water closets, 13.
Filthy pig-pens and barn cellars, 11.
Filthy tenements, 12.
Filthy hen-houses, 11.
Filthy sand-catchers, 8.
Swill in ash barrels, 46.
Manure pile nuisance, 4.
Garbage dumped in streets, 4.
Dead animals buried, 13.
Wet cellars, 4.
Notices posted on houses, 86.
Notices served, 92.
Inspections made, not including pig-pens, 1921.

Respectfully submitted.

William E. Macomber.

Following is an abstract from the report of Louis H. Richardson, Inspector of Plumbing:

To the Board of Health of the City of New Bedford:

GENTLEMEN,—I herewith present my report for the year ending Dec. 31st, 1891.

During the past year 282 new buildings have been plumbed. There have been 375 cases where alterations have been made in plumbing placed in former years.

Reinspections, new and old work, 575. With few exceptions all the work has been done in accordance with the rules of the Board of Health.

There is a growing practice, in building the cheapest class of dwelling-houses of this city, of locating the water closets in places where there is an entire absence of light and ventilation, except that reached through the door when opened. This is not in accordance with good practice of sanitary rules, for light and good ventilation are an absolute necessity for the proper maintenance of these places. I would recommend some action be taken, having in view a discontinuance of this practice.

Respectfully submitted.

LOUIS H. RICHARDSON.

DEATHS FOR THE YEAR 1891.

DISEASES.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Apoplexy,	2	3	5	1	.	2	1	3	3	1	.	6	27
Accidental poison,	1	.	.	.	.	.	.	.	.	.	.	.	1
Accidental suffocation,	1	.	.	.	1	.	.	.	.	.	.	.	2
Accidental fall,	.	.	.	1	.	.	.	.	.	.	.	.	1
Accidental burns,	.	.	.	.	.	.	.	.	1	.	.	.	1
Asthma,	.	1	.	.	.	.	.	.	.	.	.	.	1
Atelectasis,	.	1	1	.	1	.	.	.	1	.	.	1	5
Asphyxia,	.	.	1	1	.	.	.	.	.	.	.	.	2
Adynamia,	.	.	.	.	1	.	.	.	.	.	.	.	1
Anæmia,	.	.	.	.	.	.	.	.	.	1	.	1	2
Anæmia, pernicious,	.	.	.	2	.	.	.	.	.	.	.	.	2
Alcoholism,	.	.	.	.	1	.	.	.	.	.	1	2	4
Abscess, pelvic,	.	.	.	.	.	.	.	.	1	.	.	.	1
Albuminuria,	.	.	.	.	.	.	.	.	.	1	.	.	1
Aneurism of aorta,	.	.	.	.	.	.	.	.	.	.	.	1	1
Burns,	1	.	1	.	.	.	.	.	.	.	.	.	2
Bronchitis,	1	1	.	3	2	.	1	2	.	2	2	8	22
Bronchitis, cap.,	2	.	.	.	.	1	.	1	.	.	.	1	5
Brain disease,	1	2	2	2	1	.	.	2	1	3	1	2	17
Cystitis,	1	.	.	.	1	.	.	.	.	.	.	.	2
Cancer,	1	1	2	.	3	.	1	2	1	2	.	1	14
Cancer of uterus,	2	.	1	.	.	.	.	.	.	.	.	.	3
Cancer of liver,	.	2	.	.	.	.	.	.	.	.	.	.	2
Cancer of breast,	.	.	1	.	.	.	.	.	.	.	.	.	1
Cancer of stomach,	.	.	1	.	3	2	.	.	.	.	1	.	7
Cancer of bowels,	.	.	.	.	.	1	.	.	.	.	.	.	1
Cyst of mysentery,	1	.	.	.	.	.	.	.	.	.	.	.	1
Convulsions,	1	2	1	1	1	.	3	3	2	4	2	9	29
Croup,	.	1	.	1	.	.	.	.	.	3	.	.	5
Cyanosis,	.	.	.	1	.	.	.	.	.	.	.	1	2
Convulsions, uræmic,	.	.	.	.	1	.	.	.	.	.	.	.	1
Cholera infantum,	.	.	.	.	.	1	26	45	15	10	1	.	98
Congenital malformation,	.	.	.	.	.	.	.	.	.	1	.	.	1
Cirrhosis of liver,	.	.	.	.	.	1	.	.	.	.	.	1	2
Dropsy,	1	.	1	1	.	.	1	.	.	.	.	.	4
Diphtheria,	1	.	1	.	2	.	.	.	.	.	3	1	8
Diabetes,	1	.	1	.	.	.	.	.	.	.	.	3	5
Debility,	1	1	.	1	.	.	.	1	.	.	5	2	11
Debility, infan.,	3	5	5	3	5	5	6	9	13	10	.	13	77
Diarrhœa,	.	.	1	.	.	.	1	1	3	1	1	.	8
Drowning,	.	.	.	.	.	1	.	1	.	.	1	.	3
Dentition,	.	.	.	.	.	.	.	.	.	.	1	.	1
Erysipelas,	1	.	1	.	2	1	.	.	.	.	1	.	6
Entero-colitis,	.	.	1	1	.	.	.	4	6	.	.	.	12
Enteritis,	.	.	2	.	.	.	.	1	3	.	1	.	7
Exhaustion,	.	.	.	1	.	.	.	.	.	.	.	.	1
Entero-gastritis,	.	.	.	.	1	.	.	.	.	.	.	.	1
Endo-carditis,	.	.	.	.	.	1	.	.	.	.	.	.	1
Enteritis-gastro,	.	.	.	.	.	1	.	2	4	1	1	.	9
Embolism, cap,	.	.	.	.	.	.	.	1	.	.	1	.	2

DEATHS FOR THE YEAR 1891—*Continued.*

DISEASES.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Eclampsia,	.	.	.	.	.	.	.	.	1	.	.	.	1
Emphysema of lungs,	.	.	.	.	.	.	.	.	.	.	.	2	2
Epistaxis,	.	.	.	.	.	.	.	.	.	.	.	1	1
Fever, scarlet,	.	1	.	.	.	1	.	.	.	1	1	.	4
Fever, remittent,	.	.	.	.	1	.	1	.	.	.	.	.	2
Fever, typhoid,	.	.	.	.	.	.	.	1	3	2	1	1	8
Fever, puerperal,	.	.	.	.	.	.	.	1	.	.	.	.	1
Fracture of thigh,	.	.	.	.	.	.	.	1	.	.	.	.	1
Fracture base of skull,	.	.	.	.	.	.	.	1	.	2	1	.	4
Gastritis,	.	1	.	1	.	1	.	.	.	.	.	1	4
Gangrene of lung,	.	.	.	1	.	.	.	.	.	.	.	.	1
Grave's disease,	.	.	.	1	.	.	.	.	.	.	.	.	1
Heart disease,	9	10	7	12	7	4	8	11	11	6	6	15	106
Hemorrhage purpena,	1	.	.	.	.	.	.	.	.	.	.	.	1
Hemorrhage, intestinal,	.	.	1	.	.	.	.	.	.	.	.	.	1
Hemorrhage, spinal,	.	.	1	.	.	.	.	.	.	.	.	.	1
Hemorrhage, cer.,	.	.	.	2	.	.	.	.	.	.	.	.	2
Hemorrhage, pul.,	.	.	.	.	.	2	.	.	.	1	.	.	3
Hemorrhage, post partem,	.	.	.	.	.	.	.	1	.	1	.	.	2
Hepatitis,	.	.	.	1	.	.	.	.	.	.	.	.	1
Hydrocephalus,	.	.	.	.	1	.	2	.	.	.	.	.	3
Hemiplegia,	.	.	.	.	.	.	2	.	.	.	.	.	2
Hydrothorax,	.	.	.	.	.	.	.	.	.	.	1	.	1
Intestinal obstruction,	.	.	.	.	1	.	.	.	.	.	.	.	1
Influenza (epidemic),	.	.	.	.	.	1	.	.	.	.	.	4	5
Kidney disease,	1	3	5	1	2	.	1	2	1	3	1	2	22
Laryngismus, strid,	1	.	.	.	.	.	.	.	.	.	.	.	1
Laryngitus, tub.,	.	1	.	.	.	.	.	1	.	.	.	.	2
Liver, disease of,	.	.	.	.	.	.	.	.	.	.	1	.	1
Meningitis,	.	.	.	2	3	1	1	3	2	5	.	2	19
Meningitis, tub.,	1	.	1	2	.	1	1	1	1	1	4	.	13
Meningitis, spinal,	.	1	.	1	.	.	.	.	.	.	.	.	2
Meningitis, cer.,	.	.	.	2	.	1	.	.	.	1	.	.	4
Meningitis, cerebro, spinal,	.	.	.	.	1	.	1	1	.	1	.	1	5
Malarial poisoning,	.	.	.	.	.	.	.	.	1	.	.	.	1
Malformation,	.	.	.	.	.	.	.	.	.	.	.	1	1
Nephritis,	.	.	.	.	.	1	2	.	.	.	.	.	3
Old age,	1	3	1	5	3	4	2	4	2	3	1	5	34
Oedema of lungs,	.	.	.	1	.	.	.	.	.	.	.	2	3
Osteo sarcoma of pelvis,	.	.	.	.	.	.	.	.	.	1	.	.	1
Premature birth,	2	2	2	1	1	.	2	3	.	.	.	2	15
Pneumonia,	7	5	6	13	5	6	4	1	.	3	4	17	71
Pneumonia, broncho,	2	3	1	1	2	1	.	.	.	1	.	1	12
Phthisis,	8	5	11	14	7	5	2	3	9	10	5	8	87
Paresis,	1	.	.	.	.	.	.	.	.	.	.	.	1
Paralysis,	.	3	5	.	2	.	3	3	3	2	2	2	25
Peritonitis,	.	1	2	2	1	1	2	1	.	.	.	.	10
Pericarditis,	.	.	.	.	1	.	.	.	.	.	.	.	1
Pneumonia, typhoid,	.	.	.	.	.	.	.	.	.	1	.	3	4
Pneumonia, pleuro,	.	.	.	.	.	.	.	.	.	.	.	1	1

DEATHS FOR THE YEAR 1891—*Concluded.*

DISEASES.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Perityphilitis,	.	.	.	.	.	.	.	.	.	.	.	1	1
Rheumatism,	.	.	.	.	.	1	.	.	.	.	.	1	2
Septicæmia,	.	1	1	.	.	.	.	.	.	1	1	.	4
Syphilis,	.	.	.	1	.	.	.	.	.	.	.	.	1
Suicide, hanging,	.	.	.	.	.	.	1	.	.	.	.	.	1
Suicide, strychine poisoning,	.	.	.	.	.	1	.	.	.	.	.	.	1
Scrofulosis,	.	.	.	.	.	.	1	1	.	.	.	.	2
Strangulation of intestines, inter.	.	.	.	.	.	.	.	.	1	.	.	.	1
Suffocation,	.	.	.	.	.	.	.	.	.	.	1	.	1
Saturnismus,	.	.	.	.	.	.	.	.	.	.	.	1	1
Tuberculosis,	1	.	.	.	2	2	.	1	2	.	.	1	9
Tonsillitus,	.	.	1	.	.	.	.	.	.	.	.	.	1
Tonsillitus, follicular,	.	.	.	.	.	.	.	.	.	.	1	.	1
Uræmia,	.	2	1	1	.	.	.	.	.	.	1	2	7
Uræmia, puerperal,	.	.	.	.	.	.	.	.	.	.	1	.	1
Uterine, sarcoma,	.	1	.	.	.	.	.	.	.	.	.	.	1
Whooping cough,	1	.	.	.	.	.	1	.	.	1	1	.	4
Totals,	59	63	75	85	66	51	77	119	91	87	57	130	960

Whole number of deaths for 1891, 960.

	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Stillborn,	6	6	11	7	1	5	7	5	4	3	11	3	69

CONTAGIOUS DISEASES FOR 1891.

	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Diphtheria,	3	1	2	1	3	3	2	.	.	8	12	7	42
Scarlet fever,	2	4	.	.	2	5	2	2	3	9	8	7	44
Typhoid fever,	1	1	2	1	.	.	.	.	13	15	27	4	64
Totals,	6	6	4	2	5	8	4	2	16	32	47	18	150

Estimating the population at 44,000, the death rate is 21.81+ in each 1000.

During the past year 53 vaccinations have been made by the Physician to the Board.

REPORT OF NEW BEDFORD QUARANTINE FOR 1891.

From May 1st to November 1st, 1891, boarded thirteen vessels arriving from foreign ports. No vessels were detained in quarantine, as they brought no cases of contagious diseases.

W. N. Swift, Quarantine Officer.

1892—CITY DOCUMENT No. 8.

THE

AUDITOR'S ANNUAL REPORT

OF THE

Receipts and Expenditures

OF THE

CITY OF NEW BEDFORD,

INCLUDING

Report of City Treasurer and Collector of Taxes,

FOR THE YEAR 1891.

NEW BEDFORD:
E. ANTHONY & SONS, Incorp., PRINTERS.
1892.

AUDITOR'S REPORT.

JAMES H. HATHAWAY, ESQ.,
CITY TREASURER,

DR.

1891, Jan. 5. To balance of cash,		$26,078.73
Appropriations, general, 1891,	$552,526.54	
" " 1890,	8,008.88	
" " 1889,	9,408.97	
" " 1888,	4,681.14	
" special, 1890,	130,000.00	
Cemeteries,	3,275.17	
Cemetery Funds,	2,550.00	
Com. of Mass., Chap. 279,	3,138.88	
" " " 301,	5,130.50	
Engineering Department,	755.90	
Fire Department,	1,370.33	
Free Public Library, Trustees,	3 649.00	
" " " Dog Fund,	1,291.91	
Highways and Streets,	35,928.74	
Incidentals,	47.71	
N. B. and Fairhaven Bridge,	37.81	
N. B. School Com. (Howland Fund),	3,011.75	
" " (Jona. Bourne Prize Fund),	60.00	
N. B. Water Works,	78,239.54	
Parks and Squares,	27.00	
Police Department,	3,532.44	
Poor Department,	10,125.98	
Printing, Binding and Stationery,	43.13	
Public Debt,	25,000.00	
Public Schools, Incidentals,	.80	
" " Repairs Buildings,	16.23	
" " Dog Fund,	1,291.91	
Public Works, Perm. Improvements,	108.30	
Real Estate, Tax account,	40.00	
Sewers, General Account,	12,170.78	
" Bowditch Street, No. 3,	2.88	
" Bullock Street,	10.47	
" County Street, No. 5,	1.63	
" Grape Street Extension,	249.46	
" Hillman Street, Tripp's Brook,	65.55	
" Rock Street,	2.45	
" Sawyer Street,	1,665.87	
" South Water Street, No. 9,	2.61	
" Sycamore Street, No. 2,	6.35	
Temporary Loans,	597,500.00	
Unappropriated Funds,	87,129.60	1,582,106.21
		$1,608,184.94

AUDITOR'S REPORT.

In Account with the
City of New Bedford.

Cr.

Board of Health,	$2,529.53
W. H. Cadwell, Huntingdon, Pa.,	2,847.26
Cemeteries,	6,963.92
Com. of Mass., Chap. 279,	5,098.95
" " " 298,	1,487.00
" " " 301,	5,937.50
Court Judgments,	609.14
Division Street School-House and Lot,	16,482.65
Engineering Department,	8,505.26
Fire Department,	50,397.15
Free Public Library,	5,720.44
" " " Trustees,	4,833.93
" " " Dog Fund,	1,257.16
Highways and Streets,	145,845.75
Incidentals,	26,512.71
Kempton Street School-House and Lot,	8,582.08
Lighting the streets,	30,175.20
N. B. and Fairhaven Bridge,	7,403.14
N. B. School Com. (Howland Fund),	3,125.78
" " " (Jona. Bourne Prize Fund),	60.00
N. B. Water Works,	86,990.33
Parks and Squares,	857.77
Police Department,	70,232.54
Police Telegraph Signal System,	15,462.74
Poor Department,	39,520.80
Printing, Binding and Stationery,	9,077.92
Public Debt, Principal,	50,000.00
" " Interest,	80,910.59
" " " Trust Funds,	6,610.00
Public Schools, Dog Fund,	579.78
" " Incidentals,	34,688.40
" " Pay of Teachers,	88,142.76
" " Repairs of Buildings,	6,995.15
Public Works, Permanent Improvement,	7,358.23
Repairs of City Property,	2,980.07
Salaries,	15,581.17

Sewers,	General Account,	$42,568.92	
"	Babbitt Street,	1,531.21	
"	Bowditch Street, No. 3,	1,901.28	
"	Bullock Street,	534.52	
"	Campbell Street, relaying,	1,224.92	
"	County Street, No. 4,	246.79	
"	County Street, No. 5,	1,158.20	
"	County Street, No. 6,	681.32	
"	Emerson Street,	325.11	
"	Grape Street Extension,	1,816.21	
"	Hillman Street, No. 3,	2,359.66	
"	Hillman Street, Tripp's Brook,	1,931.81	
"	Hyacinthe Street,	202.65	
"	Juniper and Larch Streets,	4,833.23	
"	Margin Street,	1,460.56	
"	Marvin Street,	651.41	
"	Mill Street, No. 4,	1,485.91	
"	Purchase Street, No. 5,	955.15	
"	Rock Street,	477.37	
"	Sawyer Street,	51,956.50	
"	Sears Street,	613.07	
"	Shawmut Avenue, No. 3,	1,952.35	
"	Smith and Walden Streets,	56.04	
"	South Water Street, No. 9,	1,156.46	
"	Sycamore Street, No. 2,	2,529.65	
"	Tremont Street, No. 2,	1,674.59	
"	Ward Street, No. 2,	414.62	
"	Willow Street,	488.55	
Sinking Funds,		35,920.00	
Temporary Loan,		580,000.00	
Truant School,		1,601.95	$1,593,072.82
Balance, cash in treasury,			15,112.12
			$1,608,184.94

EXPENDITURES IN DETAIL.

SALARIES.

DR.

Charles S. Ashley, Mayor,	$1,500.00	
James H. Hathaway, Collector and Treasurer,	2,600.00	
Daniel B. Leonard, City Clerk,	1,000.00	
William B. Topham, City Auditor,	1,250.00	
Lemuel LeB. Holmes, City Solicitor,	206.11	
Thomas F. Desmond, City Solicitor,	493.89	
William R. Sherman, Sealer Weights and Measures,	365.00	
Charles D. Tuell, Assessor,	1,000.00	
William A. Russell, Assessor,	750.00	
John A. Ruggles, Assessor,	750.00	
William A. Mackie, Clerk Common Council,	250.00	
Augustus D. Piper, City Messenger,	750.00	
Isaac Barnes, Bell Ringer,	125.00	
James S. Kelley, Superintendent City Clock,	22.92	
Small & Woodworth, Superintendent City Clock,	52.08	
Henry L. Pitman, Harbor Master,	250.00	
Daniel C. Ashley, Inspector Milk and Provisions,	600.00	
Daniel D. Briggs, Supervisor Wires,	300.00	
Frederick Macy, Inspector Buildings,	200.00	
Isaac H. Coe, Probation Officer,	150.00	12,615.00
BOARD OF HEALTH:		
Dr. William N. Swift,	$300.00	
Nathaniel Hathaway,	300.00	
Thomas W. Cook,	300.00	900.00
BOARD OF REGISTRARS:		
Thomas F. Desmond,	$117.78	
Charles J. McGurk,	248.39	
Emanuel Sullavou,	400.00	
Herbert A. Blackmer,	400.00	
Daniel B. Leonard,	300.00	1,466.17
Amount carried forward,		$14,981.17

Amount brought forward,		$14,981.17
Board of Aldermen:		
John Wing,	$100.00	
Henry C. Hathaway,	100.00	
Wendell H. Cobb,	100.00	
Stephen A. Brownell,	100.00	
James Delano,	100.00	
Ezekiel C. Gardiner,	100.00	600.00
		$15,581.17
To transfer to balance,		133.83
		$15,715.00

Cr.

By appropriation,	$15,715.00

PUBLIC SCHOOLS—PAY OF TEACHERS.

Dr.

HIGH SCHOOL.

Ray Greene Huling,	$2,681.25	
Charles T. Bonney, Jr.,	1,560.00	
Charles R. Allen,	1,455.30	
Sarah D. Ottiwell,	975.00	
Elizabeth P. Briggs,	875.10	
Lydia J. Cranston,	875.90	
Mary E. Austin,	877.50	
Lucretia N. Smith,	877.50	
Emma K. Shaw,	798.75	
Helen L. Hadley,	634.50	
Mabel W. Cleveland,	652.50	
Mabel A. Spooner,	498.25	
Florence Cleaves,	536.25	
John K. McAfee,	292.50	$13,590.30

GRAMMAR SCHOOLS.

Fifth Street:

Allen F. Wood,	$1,792.50	
Mary A. Kane,	555.00	
Sarah E. Stoddard,	555.00	
Mary E. Allen,	538.00	
Lydia A. Macreading,	555.00	
Janet Hunter,	555.00	
Emma A. McAfee,	225.00	
Harriet F. Hart,	555.00	
Nancy H. Brooks,	536.25	
Blanche W. Sheldon,	475.50	
Grace L. Carver,	448.13	
Lena B. Chubbuck,	253.00	$7,043.38

Middle Street:

George H. Tripp,	$1,792.50	
Katharine Commerford,	531.00	
Mary R. Hinckley,	554.00	
Agnes J. Dunlap,	555.00	
Clara S. Vincent,	550.00	
Lucy B. Fish,	545.63	

Clara B. Watson,	555.00	
Maria B. Clark,	554.00	
Etta M. Abbott,	545.63	
Lucy D. Ashley,	385.00	
Mary M. Robinson,	77.75	$6,645.51

PARKER STREET:

Charles E. E. Mosher,	$1,912.50	
Martha A. Hemenway,	555.00	
Anna L. Jennings,	555.00	
Emma A. McAfee,	320.00	
Josephine Almy,	555.00	
Mary E. Sturtevant,	231.00	
May L. Petty,	535.25	
Mariana N. Richmond,	521.25	
Emma B. Allen,	181.68	
Emily A. Delano,	496.88	
H. Jennie Kirby,	484.88	
Lizzie E. Omey,	472.50	
Emma B. McCullough,	472.50	
Regina M. Paul,	168.75	
Carrie E. Footman,	391.88	
Anna I. Dexter,	182.25	
Mary M. Robinson,	50.00	$8,086.32

THOMPSON STREET:

Katharine N. Lapham,	$865.00	
Mary A. Macy,	544.00	
Abby F. Sullivan,	440.00	
Cora B. Cleveland,	423.75	
Daisy M. Butts,	168.75	
Lena B. Hamblin,	438.75	
Elizabeth Bennett,	53.50	
Harriet S. Gardner,	84.00	$3,017.75

HARRINGTON TRAINING SCHOOL:

Josephine B. Stuart,	$1,105.00	
Anna W. Braley,	720.00	
Mary M. Robinson,	106.00	
Sara M. Hatch,	96.20	
Margaret H. Holmes,	112.80	
Lottie M. Allen,	42.00	
Lizzie M. Briggs,	42.60	
Harriet L. Cornell,	36.60	

Ethel W. Denham,	36.90	
Dora A. DeWolf,	39.60	
Julia C. Gifford,	42.90	
Mary L. Hillman,	42.90	
Harriet N. Hyatt,	32.10	
Annie M. King,	41.70	
Isadore B. Lee,	42.60	
Ruth E. Pease,	38.10	
Julia M. Pilling,	42.90	
Fannie M. Spooner,	40.50	
Ruth M. Tripp,	42.90	
Daisy M. Butts,	16.00	
Grace Covell,	16.00	
Susan P. Diman,	14.80	
Carrie E. Footman,	15.60	
Harriet S. Gardner,	16.00	
Regina M. Paul,	192 80	
Edith M. B. Taber,	156.00	
Belle Almy,	131.20	
Elizabeth Bennett,	88.00	
Mabel Bennett,	82.60	
Mabel Hathaway,	80.60	
Isabel Horr,	80.00	
Eleanor V. Tripp,	92.00	
Annie B. Parker,	40.00	$3,725.90

PRIMARY SCHOOLS.

WILLIAM STREET:

Eleanor Commerford,	$555.00	
Amelia Lincoln,	506.25	
Mary J. Graham,	505.45	
Kate E. Cleary,	506.25	$2,072.95

LINDEN STREET:

Elizabeth P. Spooner,	$555.00	
Lucy S. Leach,	501.45	
Isabella Luscomb,	506.25	
Isadora Foster,	480.65	$2,043.35

MERRIMAC STREET:

Sarah H. Hewins,	$555.00	
Addie West,	506.25	
Harriet S. Damon,	472.50	
Anna I. Dexter,	87.75	$1,621.50

MAXFIELD STREET:		
Mary B. White,	$555.00	
Annie E. Pearce,	501.45	
Bessie P. Nash,	493.68	
Mary E. Pasho,	398.58	$1,948.71
CEDAR STREET:		
Annie S. Homer,	$579.38	
Abby D. Whitney,	495.85	
Bessie P. Peirce,	506.25	
Willetta B. Nickerson,	496.88	
Annie L. Edwards,	472.50	$2,550.86
ACUSHNET AVENUE:		
Jane C. Thompson,	$603.75	
Sarah E. Kirwin,	506.25	
Susan M. Lucas,	502.25	
Hattie L. Finlan,	498.25	
Clara C. M. Gage,	472.50	
Carrie S. Silva,	447.33	
Anna I. Dexter,	159.75	
Rachel L. Denham,	161.60	
Grace Covell,	96.00	$3,447.68
I. W. BENJAMIN:		
Jane E. Gilmore,	$648.75	
Sarah E. Tuell,	300.00	
Susan M. Tompkins,	536.25	
Annie C. O'Connor,	506.25	
Helen J. Kirk,	495.05	
Helen C. Allen,	506.25	
Nellie W. Davis,	483.85	
Mary Barstow,	448.13	
Sarah A. Winslow,	412.55	
Annie L. Brownell,	396.18	
Rachel L. Denham,	259.38	
Susan P. Diman,	145.20	
Belle Almy,	50.00	
Mabel Bennett,	42.40	$5,230.24
FOURTH STREET:		
Sarah H. Cranston,	$587.75	
Eliza H. Sanford,	485.75	
Sarah E. Sears,	506.25	

Annie L. Macreading,	463.13	
Alice A. Taylor,	399.38	
Myra A. Leach,	397.78	$2,840.04

DARTMOUTH STREET:

Isadore F. Eldridge,	$488.00	
M. Eva Schwall,	506.25	
Sara H. Kelley,	476.45	
Annie M. Carpenter,	300.00	
Grace H. Potter,	306.32	
Annie F. Smith,	395.38	
Edith M. B. Taber,	188.60	
Grace Covell,	54.00	$2,714.40

CEDAR GROVE STREET:

Lucy F. Clark,	$605.00	
Mary J. Eldridge,	506.25	
Carrie A. Shaw,	472.50	
Flora E. Estes,	472.50	
Annie G. Brawley,	433.13	
Grace H. Potter,	166.18	
Edith K. Weeden,	368.98	
Isabel S. Horr,	35.20	
Eleanor V. Tripp,	128.40	
Susan P. Diman,	76.00	$3,264.14

CANNONVILLE:

Addie J. McFarlin,	$521.25	
Lillie C. Tillinghast,	457.50	$978.75

MILL SCHOOLS.

NORTH:

Emma R. Wentworth,	$645.30	
Kate Sweet,	411.12	$1,056.42

SOUTH:

Lucy J. Remington,	$744.00	
Gertrude M. Robinson,	419.69	$1,163.69

COUNTRY SCHOOLS.

ACUSHNET:

Charlotte C. Carr,	$682.50	
Caroline O. Pierce,	472.50	
Belle B. Wheeler,	448.50	$1,603.50

CLARK'S POINT:		
Mary P. Tillinghast,	$236.80	
Julia A. Fay,	162.50	
Eleanor V. Tripp,	20.00	$419.30
NORTH:		
Mary I. Ashley,	$509.63	
Nellie Brightman,	50.00	$559.63
PLAINVILLE:		
Mary E. Haney,	$472.50	$472.50
ROCKDALE:		
Susan C. Graffam,	$10.00	
Elizabeth Bennett,	112.50	
Daisy M. Butts,	200.00	
Alice P. Terry,	148.12	
Mabel L. Hathaway,	72.00	$542.62

SPECIAL TEACHERS.

DRAWING:		
Blanche I. George,	$1,110.00	$1,110.00
SINGING:		
F. H. Butterfield,	$1,657.50	$1,657.50
SEWING:		
Carrie H. Richmond,	$520.94	
Eliza A. Smalley,	275.92	
Gertrude H. Leonard,	324.76	$1,121.62

EVENING SCHOOLS.

FIFTH STREET:	
Oliver W. Cobb,	$189.00
Mrs. S. C. Whelden,	44.00
Mrs. C. T. Johnson,	86.64
Grace H. Potter,	88.01
Mary A. Kane,	44.00
Nancy H. Brooks,	86.64
Annie F. Smith,	88.01
Alice A. Taylor,	86.64
Eleanor V. Tripp,	17.87
Nellie H. Cook,	81.14

Julia A. Fay,	86.63	
Annie L. Macreading,	22.00	
Sarah E. Stoddard,	88.01	
Mary E. Barstow,	44.00	
Jane E. Gilmore,	44.00	
Alice P. Terry,	44.00	
Annie B. Parker,	61.89	
Emma R. Wentworth,	9.62	
Leonora B. Hamblin,	23.38	
Lizzie M. Briggs,	44.01	
Julia C. Gifford,	44.01	
Jennie K. Terry,	39.90	
Mary J. Graham,	41.27	
Belle Almy,	39.89	$1,444.56
PARKER STREET:		
George H. Tripp,	$192.00	
Agnes J. Dunlap,	60.51	
Sara L. Tallman,	88.01	
Ida A. McAfee,	88.01	
Mary F. Wilde,	88.01	
Belle Almy,	48.12	
Lucy B. Fish,	5.50	
Regina M. Paul,	44.01	
Ethel Denham,	44.01	
Annie B. Parker,	4.12	$662.30
MERRIMAC STREET:		
Joseph P. Kennedy,	$80.00	
Regina M. Paul,	44.00	
Edith K. Weeden,	38.50	
Bessie P. Peirce,	44.00	
Janet Hunter,	44.00	
Mary A. Kane,	80.00	
Mary Crowell,	44.01	
Blanche W. Sheldon,	44.01	
Alice P. Terry,	28.84	
Mabel L. Hathaway,	44.01	$491.37
CEDAR GROVE STREET:		
Allen F. Wood,	$192.00	
Robert Washburn,	85.26	
Annie G. Brawley,	88.01	
Grace L. Carver,	88.01	
Myra A. Leach,	44.00	

Nannie P. Slocum,	88.01	
Daisy M. Butts,	88.01	
Addie J. McFarlin,	88.01	
Mary R. Hinckley,	88.01	
Abby R. Johnson,	88.01	
Lydia A. Macreading,	44.00	
Sarah E. Kirwin,	88.01	
Lizzie Bennett,	39.87	
Susan P. Diman,	83.89	
Carrie A. Shaw,	9.59	
Agnes J. Dunlap,	1.37	
Isabel S. Horr,	44.01	
Emma B. McCullough,	41.27	
Carrie E. Footman,	44.01	
Dora DeWolf,	44.01	
Lottie Allen,	1.37	$1,378.73
THOMPSON STREET:		
Joseph P. Kennedy,	$80.00	
Mrs. S. C. Whelden,	44.01	
Janet Hunter,	44.01	
Hattie L. Finlan,	44.01	
Annie M. King,	44.01	
Isadore B. Lee,	44.01	
Lena B. Hamblin,	42.64	$342.69
EVENING DRAWING:		
Florence Cleaves,	$237.50	
George A. Stetson,	121.50	
George H. Nye,	121.50	$480.50
Substitutes:		
Lottie M. Allen,	$3.20	
Belle Almy,	24.00	
Elizabeth P. Brightman,	16.00	
Mabel Bennett,	39.20	
Lizzie M. Briggs,	.80	
Grace Covell,	107.60	
Harriet Cornell,	20.00	
Susan P. Diman,	44.80	
Dora A. DeWolf,	26.40	
Ethel Denham,	21.60	
Harriet S. Gardner,	42.20	
Helen M. Gordon,	77.25	
Lena B. Hamblin,	32.00	

Mabel L. Hathaway,	36.00	
Sara M. Hatch,	51.60	
Harriet N. Hyatt,	12.80	
Mary T. Hitch,	2.40	
Margaret H. Holmes,	3.20	
Mary L. Hillman,	1.60	
Annie M. King,	3.20	
Regina M. Paul,	36.00	
Julia M. Pilling,	1.00	
Ruth E. Pease,	22.20	
Mary M. Robinson,	118.80	
Nannie P. Slocum,	37.80	
Fannie Spooner,	6.40	
Lillie C. Tillinghast,	24.00	
Edith K. Weeden,	2.00	$814.05
		$86,142.76
To transfer to balance,		857.24
		$87,000.00

Cr.

By appropriation,	$75,000.00	
Special appropriation,	12,000.00	$87,000.00

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1892, Jan. 4. To balance,		4,574.01
		$9,407.94

Cr.

1891, Jan. 5. By balance,	$5,758.94	
By cash receipts, as per Treasurer's report,	3,649.00	$9,407.94

Cr.

1892, Jan. 4. By balance,	$4,574.01

APPROPRIATIONS, GENERAL, 1891.

Dr.

Board of Health,	$2,000.00	
Cemeteries,	1,000.00	
Com. of Mass., Chap. 279,	3,500.00	
Com. of Mass., Chap. 298,	1,000.00	
Engineering Department,	8,000.00	
Fire Department,	37,000.00	
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N. B. and Fairhaven Bridge,	10,000.00	
N. B. Water Works,	12 000.00	
Parks and Squares,	2,500.00	
Police Department,	56,500.00	
Poor Department,	30,000.00	
Printing, Binding and Stationery,	4,000.00	
Public Debt,	114,886.25	
Public Schools, Incidentals,	28,000.00	
Public Schools, Pay of Teachers,	75,000.00	
Public Schools, Repairs of Buildings,	4,500.00	
Repairs of City Property,	3,000.00	
Salaries,	15,715.00	
Sewers, General Account,	1,000.00	
Sinking Funds,	35,920.00	
Truant School,	1,000.00	$570,200.00

Cr.

By cash receipts, as per Treasurer's report,	$552,526.54	
1892, Jan. 4. By balance,	17,673.46	$570,200.00

Dr.

1892, Jan. 4. To balance,	$17,673.46

APPROPRIATIONS, GENERAL, 1890.

Dr.

1891, Jan. 5. To balance,		$27,913.12

Cr.

By cash receipts, as per Treasurer's report,	$8,008.88	
1892, Jan. 4. By balance,	19,904.24	$27,913.12

Dr.

1892, Jan. 4. To balance,	$19,904.24

APPROPRIATIONS, GENERAL, 1889.

Dr.

1891, Jan. 5. To balance,	$25,165.77

Cr.

By cash receipts, as per Treasurer's report,	$9,408.97	
1892, Jan. 4. By balance,	15,756.80	$25,165.77

Dr.

1892, Jan. 4. To balance,	$15,756.80

APPROPRIATIONS, GENERAL, 1888.

DR.

1891, Jan. 5. To balance,		$7,096.92

CR.

By cash receipts, as per Treasurer's report,	$4,681.14	
1892, Jan. 4. By balance,	2,415.78	$7,096.92

DR.

1892, Jan. 4. To balance,	$2,415.78

APPROPRIATIONS, SPECIAL, 1891.

DR.

Board of Health,	$600.00	
Cemeteries,	2,500.00	
Fire Department,	6,750.00	
Highways and Streets,	25,000.00	
Incidentals,	19,220.85	
Kempton Street School-House and Lot,	8,600.00	
Police Department,	4,000.00	
Police Telegraph System,	1,300.00	
Printing, Binding and Stationery,	4,000.00	
Public Schools, Incidentals,	8,000.00	
Public Schools, Pay of Teachers,	12,000.00	
Public Schools, Repairs of Buildings,	4,900.00	
Public Works, Permanent Improvements,	12,000.00	
Repairs of City Property,	1,275.00	
Sewers, General Account,	30,273.00	
" Babbitt Street,	1,400.00	
" Bowditch Street,	627.49	
" Bullock Street,	1,000.00	
" Campbell Street, Relay of,	1,500.00	
" County Street, No. 5,	1,200.00	
" County Street, No. 6,	800.00	
" Emerson Street,	900.00	
" Hillman Street, No. 3,	2,800.00	
" Hillman Street, Tripp's Brook,	2,000.00	
" Hyacinth Street,	400.00	
" Juniper and Larch Streets,	4,300.00	
" Margin Street,	1,000.00	
" Marvin Street,	500.00	
" Mill Street,	3,000.00	
" Purchase Street, No. 5,	1,000.00	
" Rock Street,	600.00	
" Sawyer Street,	50,000.00	
" Sears Street,	500.00	
" Shawmut Avenue, No. 3,	2,000.00	
" South Water Street, No. 9,	1,500.00	
" Sycamore Street, No. 2,	237.59	
" Tremont Street, No. 2,	1,000.00	
" Ward Street, No. 2,	300.00	
" Willow Street,	400.00	
Truant School,	601.95	$219,985.88

Cr.

By transfer from sundry accounts,	$59,114.78	
1892, Jan. 4. By balance,	160,871.10	$219,985.88

Dr.

1892, Jan. 4. To balance,	$160,871.10

APPROPRIATIONS, SPECIAL, 1890.

Dr.

1891, Jan. 5. To balance,	$148,630.81

Cr.

By cash receipts, as per Treasurer's report,	$130,000.00	
Transfer from unappropriated funds,	18,630.81	$148,630.81

W. H. CADWELL, HUNTINGDON, PA.

Dr.

1891, Feb. 10. To cash,	$2,847.26

Cr.

1891, Jan. 5. By balance,	$2,847.26

COMMONWEALTH OF MASSACHUSETTS.

Chapter 279.

Dr.

1891, Jan. 5. To balance,	$3,948.90	
To amount paid by City for State Aid,	5,098.95	$9,047.85

Cr.

By appropriation,	$3,500.00	
By cash receipts, as per Treasurer's report,	3,138.88	
1892, Jan. 4. By balance,	2,408.97	$9,047.85

Dr.

1892, Jan. 4. To balance,	$2,408.97

COMMONWEALTH OF MASSACHUSETTS.

Chapter 298 of 1889.

Dr.

To amount paid by the City for State Aid,	$1,487.00

Cr.

By appropriation,	$1,000.00	
Transfer to balance,	487.00	$1,487.00

COMMONWEALTH OF MASSACHUSETTS.

Chapter 301.

Dr.

1891. Jan. 5. To balance,	$4,970.55	
To amount paid by the City for State Aid,	5,937.50	$10,908.05

Cr.

By cash receipts, as per Treasurer's report,	$5,130.50	
1892, Jan. 4. By balance,	5,777.55	$10,908.05

Dr.

1892, Jan. 4. To balance,	$5,777.55

ENGINE-HOUSE No. 5 ALTERATIONS.

Cr.

1892, Jan. 4. By balance,	$3,500.00

NEW BEDFORD SCHOOL COMMITTEE.

JONATHAN BOURNE PRIZE FUND.

DR.

To William E. Hatch, Secretary, for prizes,	$60.00	
1892, Jan. 4. To balance,	30.00	$90.00

CR.

1891, Jan. 5. By balance,	$30.00	
By cash receipts, as per Treasurer's report,	60.00	$90.00

CR.

1892, Jan. 4. By balance,	$30.00

REAL ESTATE TAX ACCOUNT.

DR.

1891, Jan. 5. To balance,	$362.75

CR.

By paid up taxes, as per Treasurer's report,	$40.00	
1892, Jan. 4. By balance,	322.75	$362.75

DR.

1892, Jan. 4. To balance,	$322.75

BOARD OF HEALTH.

Dr.

Anthony & Sons, E.,	$ .48	
Ashley, Dr. D. C.,	20.00	
"Caligraph,"	100.00	
Cassidy, George C.,	7.50	
Cornell & Swift,	3.00	
Cummings, C. S. & B.,	.72	
Douglass, F. M.,	117.80	
Gammons, Edgar H.,	2.00	
Hadley, F. R.,	.60	
Hatch & Co.,	.40	
Hathaway, Nathaniel,	180.93	
Hayden, Eugene,	7.50	
Hutchinson & Co., H. S.,	2.85	
Inspector,	60.00	
Jenkins, B. S.,	2.00	
Kirby & Hicks,	6.00	
Lawton, C. H. & H. A.,	2.00	
Macomber, William E.,	3.00	
Mercury Pub. Co.,	6.00	
Peed, Thomas J.,	19.75	
Richardson, Louis H.,	1,400.00	
Small, Susie J.,	500.00	
So. Mass. Telephone Co.,	35.00	
Swift, William N., Dr.,	41.00	
Taber, Robert W.,	3.00	
Tripp, S. A.,	7.00	
Wing & Co., C. F.,	1.00	$2,529.53
To transfer to balance,		70.47
		$2,600.00

Cr.

By appropriation,	$2,000.00	
special appropriation,	600.00	$2,600.00

COURT JUDGMENTS.

Dr.

1891, Jan. 5. To balance,	$1,519.33	
Anna Linsky,	327.94	
David Sharples,	281.20	$2,128.47

Cr.

1892, Jan. 4. By balance,	$2,128.47

Dr.

1892, Jan. 4. To balance,	$2,128.47

KEMPTON STREET SCHOOL-HOUSE AND LOT.

Dr.

To Harriet E. Channing,	$8,500.00	
Collector of Taxes,	82.08	
1892, Jan. 4. To transfer to balance,	17.92	$8,600.00

Cr.

By appropriation,	$8,600.00

POLICE TELEGRAPH SIGNAL SYSTEM.

Dr.

Bird & Co., J. A. & W.,	$27.90	
Brightman, Charles O.,	4,457.85	
Briggs & Lawrence,	102.10	
Brownell, Stephen A.,	27.25	
Callahan Co., Cornelius,	69.70	
Cronin, William,	67.00	
Drake, A. B.,	5.50	
Gamewell Fire Alarm Tel. Co.,	7,950.00	
Hart & Akin,	2.20	
Hatch, George E.,	2.75	
Holcomb, Roland,	1,300.00	
Kirby & Hicks,	13.00	
Lawton, C. H. & H. A.,	20.30	
Lowe, S. C.,	7.25	
Lowell, Clarence,	1,116.50	
Macy, E. B.,	13.25	
N. B. Fire Department,	225.00	
N. B. Gas Light Co.,	5.42	
Sanders & Barrows,	22.00	
Tripp, S. A.,	4.25	
Wood, Brightman & Co.,	23.52	$15,462.74
To transfer to balance,		69.15
		$15,531.90

Cr.

1891, Jan. 5. By balance,	$14,231.90	
By special appropriation,	1,300.00	$15,531.90

PUBLIC SCHOOLS—DOG FUND.

Dr.

Allen, Luke,	$75.00	
Eggars, S.,	185.22	
Gray, C. A.,	1.06	
Hatch, W. E.,	100.00	
Phillips, H. T.,	75.00	
Richards, Geo. D.,	11.00	
Sherman, W. H.,	7.50	
Tompkins, Isaac B.,	62.50	
White, A. P.,	62.50	$579.78
1892, Jan. 4. To balance.		3,351.37
		$3,931.15

Cr.

1891, Jan. 5. By balance,	$2,639.24	
By cash receipts, as per Treasurer's report,	1,291.91	$3,931.15

Cr.

1892, Jan. 4. By balance,	$3,351.37

SINKING FUNDS.

Dr.

To paid Sinking Fund Commissioners,	$35,920.00

Cr.

By appropriation,	$35,920.00

TEMPORARY LOAN.

Dr.

To paid loans,	$580,000.00	
1892, Jan. 4. To balance,	142,500.00	$722,500.00

Cr.

1891, Jan. 5. By balance,	$125,000.00	
By sundry loans,	597,500.00	$722,500.00

Cr.

1892, Jan. 4. By balance,	$142,500.00

UNAPPROPRIATED FUNDS.

Dr.

To transfers to:		
Appropriations, Special, 1890,	$18,630.81	
Appropriations, Special, 1891,	59,114.78	
Com. of Mass., Chap. 298 of 1889,	487.00	
Free Public Library,	20.44	
Incidentals,	1,765.40	
Lighting the streets,	2,675.20	
Police Department,	86.69	
Printing, Binding and Stationery,	1,034.79	
Sewers, Babbitt Street,	131.21	
" Bowditch Street, No. 3,	270.91	
" Juniper and Larch Street,	533.23	
" Margin Street,	460.56	
" Marvin Street,	151.41	
" Sawyer Street,	290.63	
" Sears Street,	113.07	
" Sycamore Street, No. 2,	485.71	
" Tremont Street, No. 2,	674.59	
" Ward Street, No. 2,	114.62	
" Willow Street,	88.55	$87,129.60

Cr.

By cash receipts, as per Treasurer's report,	$87,129.60

TRUST FUNDS.

Cr.

By Sylvia Ann Howland Free Public Library Fund:	
One-half of the bequest of Sylvia Ann Howland for the support of Liberal Education and Free Public Library,	$50,000.00
By Sylvia Ann Howland Educational Fund:	
One-half of the bequest of Sylvia Ann Howland for the support of Liberal Education and Free Public Library,	50,000.00
By George Howland, Jr., Fund:	
Donation to Free Public Library,	1,600.00
By Charles W. Morgan Fund:	
Bequest to Free Public Library,	1,000.00
By Oliver Crocker Fund:	
Bequest to Free Public Library,	1,000.00
By James B. Congdon Fund:	
Donation to Free Public Library,	500.00
By Jonathan Bourne Prize Fund:	
Donation to School Committee,	1,000.00
By George O. Crocker Fund:	
Bequest to Free Public Library,	10,000.00
	$115,100.00

FREE PUBLIC LIBRARY—DOG FUND.

Dr.

Ames, Richard,	$6.25	
Ames, Y. W.,	608.00	
Anthony & Sons, E.,	16.25	
Briggs & Lawrence,	25.75	
Gammons, Lottie M.,	92.00	
Journal Pub. Co.,	11.25	
Kane & Bro., D. J.,	4.50	
McAuliff, D. J.,	60.00	
Mercury Pub. Co.,	181.04	
Merrick, Emma J.,	196.00	
Peirce & Bushnell Mfg. Co.,	5.25	
Pope, A. P.,	10.30	
Reed, J. C. T.,	12.50	
Storrs & Bement, A.,	6.80	
Taber, R. A.,	14.27	
The Watchman,	7.00	$1,257.16
1892, Jan. 4. To balance,		665.65
		$1,922.81

Cr.

1891, Jan. 5. By balance,	$630.90	
By cash receipts, as per Treasurer's report,	1,291.91	$1,922.81

Cr.

1892, Jan. 4. By balance,	$665.65

FREE PUBLIC LIBRARY.

Dr.

Salaries:		
R. C. Ingraham, Librarian,	$2,250.00	
W. L. R. Gifford, Assistant Librarian,	1,500.00	
Mary E. Brown, Assistant,	540.00	
Susie H. Gammons, "	540.00	
Josephine A. Merrick, "	540.00	$5,370.00
Miscellaneous:		
Almy & Milne,	$6.00	
Alta California Pub. Co.,	6.00	
Anthony & Sons, E.,	1.61	
Dews, Edwin,	267.67	
Journal Pub. Co.,	1.42	
Kane & Bro., D. J.,	21.60	
Library Bureau,	9.90	
Mercury Pub. Co.,	26.49	
N. B. Gas Light Co.,	2.25	
Providence Journal Co.,	2.00	
Schoenhof, Carl,	3.00	
Women's Journal,	2.50	$350.44
		$5,720.44

Cr.

By appropriation,	$5,700.00	
Transfer to balance,	20.44	$5,720.44

FIRE DEPARTMENT.

Dr.

Pay Rolls:		
Permanent men,	$18,506.58	
Engine companies,	10,369.12	
Engineers,	2,020.16	
Protecting Society,	150.00	$31,045.86
Repairs of Engines, Harness, &c.:		
Allen, Jesse,	$16.39	
Brownell, Ashley & Co.,	130.97	
Cronin, William,	96.50	
Cushing, C. F.,	25.00	
Dexter, T. D.,	39.45	
Fichtenmeyer & Flynn,	218.05	
Hathaway, H. C.,	275.91	
Healy, T. F.,	73.10	
Huddy, G. G.,	17.60	
Lowell, Clarence,	108.50	
Macy, E. B.,	50.70	
Manchester Locomotive Works,	67.18	
N. B. Boiler and Machine Co.,	44.85	
N. B. Water Works,	19.20	
Sargent, F. H.,	51.35	
Sherman & Son, C. R.,	1.45	$1,236.20
Repairs of Engine-Houses:		
Allen & Son, R. N.,	$39.53	
Ballou, J. L.,	273.88	
Bertram, John,	69.61	
Croacher, T. W.,	8.08	
Faunce, C. L.,	28.55	
Gardner & Southwick,	1.90	
Gifford & Co., T. J.,	2.00	
Greene & Wood,	110.78	
Hammond, F. W.,	234.56	
Hart & Akin,	.83	
Lowe, S. C.,	280.94	
Mahoney, T. E.,	10.85	
Miller & Hook,	382.77	
Nelson, George,	116.88	
Paisler, C. S.,	131.41	

Penney, E. F.,	84.97	
Snow, R. W.,	2.91	
Tripp, S. A.,	2.45	
West, W. R.,	30.25	$1,813.15

HAY, GRAIN AND FUEL:

Ashley, George,	$21.46	
Baylies, William,	359.75	
Benson, Charles,	83.53	
Brayton, G. H.,	93.49	
Brownell, J. T.,	70.20	
Clark, T. E.,	34.66	
Davis, James,	74.15	
Denison Bros.,	313.32	
Duff & Son, David,	274.98	
Dunham, N. B.,	24.83	
Grinnell, Edmund,	4.17	
Harrison, E. L.,	12.00	
Hart & Akin,	554.13	
Hathaway, A. G.,	17.61	
Hathaway, W. E.,	218.15	
Jenney & Son, P. P.,	24.70	
Kirk, John,	266.08	
Marston & Co., F. A.,	155.52	
Notter, John,	161.44	
Potter, D. H.,	384.16	
Poor Dep't,	1,123.85	
Randall, Thomas,	12.69	
Sherman, J.,	10.08	
Tinkham, N.,	63.81	$4,358.76

SUPPLIES:

Acushnet Iron Co.,	$82.91	
Beattie Zinc Works,	46.95	
Bird & Co., J. A. & W.,	173.37	
Callahan Co., Corns.,	1,507.42	
Covell, A. H.,	1.25	
Cushing, C. F.,	10.00	
Driscol, Church & Hall,	46.23	
Eastern Electric Cable Co.,	5.80	
Hart & Akin,	.25	
Hayes, N. P.,	.30	
Homer, George S.,	15.00	
Jackson, A. S.,	33.00	

King & Co., C. G.,	14.40	
Kirby, C. L.,	7.50	
Lowe, S. C.,	7.88	
Macomber, W. L.,	16.00	
Macy, E. B.,	28.90	
Mitchell Manfg. Co., A. W.,	2.86	
Monte Pio Co-op. Association,	12.50	
N. B. Cordage Co.,	56.50	
N. E. Gamewell Co.,	6.25	
Pairpoint Manfg. Co.,	27.50	
Pierce, E. H.,	28.83	
Richards, George D.,	50.50	
Russell, A. L.,	.90	
Scollay & Rich,	9.40	
Sherman & Habicht,	39.40	
Sherman & Son, C. R.,	2.85	
Smith, Agt. W. C.,	10.00	
So. Mass. Telephone Co.,	3.60	
Sowle & Co., F. L.,	2.12	
Sullings, Kingman & Co.,	72.20	
Taber, R. H.,	14.25	
Tripp, S. A.,	17.70	
Veit, R. J.,	6.00	
Vose, S. C.,	3.00	
Wamsutta Mills,	23.63	
Washburn & Moen Mfg. Co.,	15.25	
West, W. R.,	2.41	
Whiting & Co., E. B.,	44.66	
Whittemore, M. F.,	3.50	
Williams, J. S.,	36.00	
Wood, Brightman & Co.,	1.75	$2,490.52

MISCELLANEOUS:

Almy, James T.,	$1.00	
Almy & Hitch,	2.00	
Anthony & Sons, E.,	46.50	
Ashley & Peirce,	13.50	
Bancroft, J. V.,	656.70	
Black, Peter,	52.04	
Blake Bell Co.,	316.40	
Briggs, D. D.,	73.10	
Briggs, N. C.,	6.00	
Briggs & Lawrence,	148.68	
Brownell, Ashley & Co.,	211.34	
Brownell, E. C.,	3.42	

Brownell, George L.,	3.84
Brownell, Jos., Heirs of,	92.50
Callahan Co., Corn's,	207.50
Card, C. H.,	41.63
Caswell, N. H.,	22.35
Coggeshall, E. H.,	22.00
Cundall, C. D.,	11.55
Dews, Edwin,	12.25
Douglass, J. O.,	550.00
Duddy, James,	3.00
Duff & Son, David,	3.50
Dunlap, A. A.,	148.00
Durfee, E. M.,	217.10
Fichtenmeyer & Flynn,	37.95
Foley, F. E.,	1.00
Footman, John W.,	69.98
Fox, James,	16.00
Gammons, Est. G. F. W.,	.75
Gardner & Southwick,	10.43
Gray, C. A.,	13.76
Green, A. H.,	8.00
Grinnell, Edmund.	7.20
Hadley, F. R.,	22.70
Hart & Akin,	48.56
Hart & Co., T. M.,	21.64
Hatch, G. E.,	11.05
Hathaway, A. E.,	50.45
Hersey, W. A.,	8.40
Howland, C. E.,	12.00
Kennedy, W. C.,	39.80
Kirby & Hicks,	1.00
La Franc Fire Engine Co.,	3,102.50
Lawton, C. H. & H. A.,	1.85
Littlefield, L. A.,	.75
Lowe, S. C.,	19.32
Macy, E. B.,	77.81
Macy, Fred'k,	394.37
Manchester, I. H.,	52.00
Mercury Pub. Co.,	6.00
Monte Pio Co-op. Association,	4.00
N. B. Gas Light Co.,	647.21
N. B. Boiler and Machine Co.,	57.49
N. B. Ice Co.,	76.30
N. E. Gamewell Co.,	450.00
Old Colony Railroad Co.,	76.25

Perry & Son, S. F.,	10.00	
Purrington & Brown,	4.50	
Reed, W. P.,	6.00	
Refuse, R. T.,	4.90	
Reynolds, E. G.,	10.00	
Russell, Pardon Jr.,	17.50	
Sheehan, Timothy,	25.00	
Sherman, W. H.,	17.00	
Smith & Goold,	6.00	
So. Mass. Telephone Co.,	403.72	
Sullivan, D. J.,	4.00	
Sullivan, Dr. J. F.,	5.25	
Swan, Edward,	3.72	
Thomas, C. H.,	300.00	
Tripp, S. A.,	.69	
U. S. Express Co.,	.50	
Van Duzen & Tift Co.,	271.43	
Walker & Co., G. H.,	15.00	
Warren, David,	23.00	
Watson, Mark,	1.00	
Watson & Fuller,	14.45	
West, W. R.,	11.28	
Wing, C. F.,	23.98	
Wood, Brightman & Co.,	11.35	
Wright Drug Co.,	49.97	$9,452.66
		$50,397.15

Cr.

By appropriation,	$37,000.00	
Appropriations, special,	6,750.00	
Cash receipts, as per Treasurer's report,	1,370.33	45,120.33
Transfer to balance,		5,276.82
		$50,397.15

ENGINEERING DEPARTMENT.

Dr.

To pay rolls,	$1,782.53	
Anthony & Sons, E.,	.50	
Borden, C. F.,	12.33	
Brightman & Washburn,	209.35	
Buff & Berger,	161.45	
Drake, A. B.,	3,736.84	
Frost & Adams,	56.11	
General Sewers,	9.50	
Greene & Wood,	8.73	
Hart & Akin,	.30	
Hayes, N. P.,	3.15	
Hutchinson & Co., H. S.,	.75	
Journal Pub. Co.,	2.60	
Keuffel & Esser Co.,	75.85	
Library Bureau,	135.00	
Moody, J. E.,	32.30	
Nye, Geo. H.,	31.45	
Slocum, F. R.,	4.25	
Street Department,	2,130.22	
Tripp, A. S.,	10.50	
Union Street Railway Co.,	85.00	
Young & Sons,	16.55	$8,505.26
1892, Jan. 4. To balance,		250.64
		$8,755.90

Cr.

By appropriation,	$8,000.00	
Cash receipts, as per Treasurer's report,	755.90	$8,755.90

Cr.

1892, Jan. 4. By balance,	$250.64

DIVISION STREET SCHOOL-HOUSE AND LOT.

Dr.

To Alden, Geo. N.,	$80.00	
Brownell & Murkland,	13,099.99	
Chace, Ezra B.,	475.00	
Corson, T. S.,	11.75	
Drake, A. B.,	20.00	
Grinnell, Edmund,	.71	
Hammond, Edgar B.,	447.00	
Hart & Akin,	65.64	
Highways and Streets,	299.99	
N. B. Gas Light Co.,	51.85	
Polsey, J. F.,	1,930.72	$16,482.65
1892, Jan. 4. To transfer to balance,		1,376.19
		$17,858.84

Cr.

1891, Jan. 5. By balance,	$17,858.84

CEMETERY FUNDS.

PERMANENT CARE OF LOTS.

Cr.

1891, Jan. 5. By balance,	$14 114.93	
Blossom, B. C., Oak Grove,	100.00	
Briggs, John, Rural,	100.00	
Burroughs, J. A., Rural,	100.00	
Burroughs, R. E., Oak Grove,	50.00	
Congdon, James B., Rural,	300.00	
Cushman, A. C., Oak Grove,	100.00	
Durfee, James, Rural,	100.00	
Field, W. P., Rural,	100.00	
Freeman, Isaac, et al., Oak Grove,	50.00	
Harrington, A. & H. A., Oak Grove,	100.00	
Hathaway, B. F., Oak Grove,	100.00	
Howard, M. K., Rural,	100.00	
Hussey, W. A., Rural,	100.00	
Jenney, Smith, Oak Grove,	125.00	
King, A. C., Rural,	50.00	
Macomber, John, Oak Grove,	75.00	
Montague, E. W., Rural,	25.00	
Moore, Ann, Rural,	50.00	
Ricketson, B. T., Rural,	100.00	
Russell, Elihu, Oak Grove,	100.00	
Sawyer, J. A., Oak Grove,	100.00	
Seabury, F. P., Oak Grove,	100.00	
Spaulding, D. R., Oak Grove,	100.00	
Taber, John H., Oak Grove,	75.00	
Tripp, Sally B., Rural,	100.00	
Weeks, A. M., Rural,	50.00	
Wilcox, Henry T., Rural,	100.00	$16,664.93

CEMETERIES.

Dr.

Pay-rolls, Rural,	$2,452.32
" Oak Grove,	84.00
" " " C. F. Cornell,	1,228.50
Ashley, Isaac L.,	4.00
Bertram, John,	247.83
Bliss, Geo. C.,	122.54
Brown, William S.,	8.75
Brownell, George L.,	3.00
Butts, C. H. W.,	9.00
Coggeshall, Maxfield & Co.,	21.60
Crapo, G. W.,	86.00
Crapo, J. A.,	14.90
Crapo, Peter,	38.25
Davenport, A. M.,	20.91
DeWolf & Vincent,	11.64
Dews, Edwin,	10.15
Drake, A. B.,	46.25
Eggars, S.,	.90
Ennis, J. H.,	37.08
Footman, John W.,	19.40
Gammons, E. H.,	8.00
Gifford & Co., T. J.,	2.35
Greene & Wood,	3.45
Hart & Co., T. M.,	8.50
Hathaway, A. B.,	17.25
Hayden, W. G.,	5.24
Hayes, N. P.,	76.00
Hickey, M. A.,	117.82
Hunt, S. C.,	561.59
Jenney & Son, P. P.,	110.62
Jenney & Buffington,	8.33
Karcher, Herman,	21.07
King, G. T.,	23.00
Lawton, R. S.,	37.10
Lowe, S. C.,	33.47
McManamon & Luetchford,	56.50
Mosher, E. D.,	67.66
N. B. Cordage Co.,	1.14
N. B. Water Works,	58.90
Paisler, C. S.,	24.45
Peirce, S. D.,	144.45

Peirce, William,	198.00	
Perkins & Chase,	36.00	
Popple, G. D.,	200.00	
Potomska Mills,	30.40	
Randall, C. G. & G. A.,	6.90	
Richards, George D.,	36.55	
Sanders, William,	55.55	
Sherman & Son, C. R.,	1.50	
Skiff, A. J.,	10.50	
So. Mass. Telephone Co.,	78.00	
Stowell, B. I.,	68.25	
Sturtevant Bros.,	86.55	
Sullivan, J. B.,	21.50	
Swift, T. W.,	4.75	
Sylvia, A. A.,	10.06	
Sylvia, J. L.,	255.00	
Thomas, J. S.,	5.50	
Wilcox, P. C.,	5.00	$6,963.92
1892, Jan. 4. To balance,		226.34
		$7,190.26

Cr.

1891, Jan. 5. By balance,	$415.09	
By cash receipts, as per Treasurer's report,	3,275.17	
Special appropriations,	3,500.00	$7,190.26

Cr.

1892, Jan. 4. By balance,	$226.34

HIGHWAYS AND STREETS.

Dr.

Pay-rolls,	$83,659.93

Teaming:

American Horse Protector Co.,	$18.00
Ames Plow Co.,	34.84
Anthony & Sons, E.,	2.71
Arnold, C. O.,	2.00
Ashley Bros.,	250.00
Ashley's Est., A. B.,	190.00
Ashley, Dr. D. C.,	114.10
Ashley, Isaac L.,	16.00
Ashley, Mary P.,	12.00
Bancroft, J. V.,	225.00
Brownell & Co.,	37.74
Brownell, Ashley & Co.,	81.90
Brownell, Geo. L.,	82.42
Coggeshall, C. W.,	3.15
Coggeshall, Maxfield & Co.,	5.00
Cronin, William,	124.52
Cushing, C. F.,	144.35
Dexter, T. D.,	6.25
Drake, A. B.,	14.03
Driscol, Church & Hall,	19.86
Douglass, J. O.,	500.00
Dunlap, A. A.,	61.00
Footman, John W.,	1.40
Forbes, James R.,	.75
Francis, J. T.,	18.00
Fuller, N. T.,	44.25
Gage, J. N.,	19.40
Hathaway, A. E.,	7.75
Hathaway, E. R.,	144.76
Hathaway, L. J.,	106.50
Healy, T. F.,	11.64
Hill & Co., James R.,	180.00
Howland, I. C.,	15.00
Huddy, G. G.,	42.45
King, C. G.,	59.25
Kirby, Geo. Jr.,	43.86
Mosher, E. D.,	1.55

N. B. Copper Co.,	33.02	
N. B. Machine Co.,	10.00	
Old Colony Railroad Co.,	13.50	
Pickett, J. F.,	525.00	
Poole, William H.,	10.11	
Pulsifer Chemical Co.,	4.80	
Sawyer, S. P.,	11.03	
Scollay & Rich,	25.05	
Smith & Goold,	2.50	
So. Mass. Telephone Co.,	45.00	
Sowle & Co., F. L.,	3.10	
Thomas, C. H.,	475.00	
Weeks & Potter,	84.03	
Wright Drug Co.,	2.15	$3,885.72
HAY, GRAIN, &C.:		
Barnard, Geo. M.,	$406.66	
Baylies, William,	1,512.66	
Denison Bros.,	2,725.70	
Howland, J. M.,	51.90	
Jennings, L. T.,	180.64	
Poole, Philip,	3.30	
Wilson, Benj.,	145.61	
Wright, Joseph,	11.25	$5,037.72
REPAIRS OF ROLLER AND CRUSHERS:		
Acushnet Iron Works,	$5.58	
Allen, A. W.,	2.50	
Babbitt & Wood,	165.00	
Bowker & Tripp,	577.85	
Brightman & Washburn,	2.00	
Coggeshall, Maxfield & Co.,	.20	
Farrell Foundry and Machine Co.,	378.78	
Gardner & Southwick,	18.00	
Gifford's Brass Foundry,	.75	
Gifford & Co., T. J.,	.60	
Greene & Wood,	8.88	
Howland Mills Corp.,	20.80	
Kirby, Geo. Jr.,	9.03	
Lawrence, C. E.,	18.50	
N. B. Copper Co.,	1.10	
Oastler, W. C.,	204.00	
Old Colony Railroad Co.,	15.34	
Sawyer, S. P.,	15.55	
Sowle & Co., F. L.,	.30	

Swift, T. W.,	.75	
Tillinghast, W. A.,	4.94	
Waite, Williams & Co.,	44.65	
Wellington, A. J.,	20.00	$1,515.10

SUPPLIES AND MATERIAL:

Allen, Clark,	$54.39	
Ames Plow Co.,	279.18	
Ashley, A. Davis,	379.59	
Ashley, H. T.,	73.27	
Ashley, J. T.,	14.96	
Austin, Michael,	3.03	
Blanchard, W. D.,	106.93	
Bosworth, W. E.,	6.83	
Bowditch St. Sewer, No. 3,	2.88	
Brown, W. S.,	5.59	
Brownell, C. T.,	28.69	
Brownell, E. C.,	5.00	
Brownell, H. M.,	17.64	
Brownell, J. Aug.,	10.93	
Brownell & Murkland,	105.49	
Brownson, L. B.,	118.51	
Burke, James,	17.41	
Burns, James,	119.39	
Butts, C. H. W.,	27.59	
Cemeteries,	77.65	
Chausse, Joseph,	3.40	
Cobb, Geo. A.,	3.49	
Cory, F. A.,	10.98	
Cory, G. G.,	3.77	
Cornell Bros.,	31.03	
Cornell, C. A. & J. H.,	68.38	
Cornell, J. H.,	7.95	
Corson, T. S.,	251.16	
Crapo, G. G.,	242.85	
Crapo, Peter,	2,533.56	
Crapo, W. H.,	10.00	
Cummings, C. S. & B.,	8.75	
Curtis, M. E.,	1.92	
Davis, Mark,	362.96	
Denauld, Moses,	35.84	
DeWolf & Vincent,	114.03	
Driscol, Church & Hall,	102.00	
Duff & Son, David,	847.64	
Duff, John,	3.84	

Duddy, James,	26.73
Dunn, John,	245.82
Eggars, S.,	78.95
Enos, Antone,	5.27
Enos, A. F.,	2.46
Equi, John,	11.02
Equi, Louis,	788.61
Farrell Foundry and Machine Co.,	414.30
Ferguson, David,	17.51
Gammons, E. H.,	40.12
Gammons, G. W.,	6.85
General Sewers,	1,248.30
Gill, Severn,	53.18
Goodrow, Dolly,	16.64
Grape St. Sewer Extension,	59.40
Gray, C. A.,	374.36
Gregoire, Napoleon,	115.69
Gregoire, Peter,	206.53
Grew, David Jr.,	84.69
Harrison, E. L.,	3.00
Hart & Co., T. M.,	7.04
Haskell, Chas.,	3.05
Hathaway, H. W.,	54.56
Hathaway, P. E.,	107.89
Hathaway, P. S.,	89.20
Hathaway, W. E.,	35.11
Hawes, J.,	6.40
Homer, Geo. S.,	88.56
Howland, C. E.,	37.32
Howland, J. W.,	4.53
Hubbard, Joseph,	21.65
Jenks, Andrew,	59.98
Jenks, A. F.,	113.65
Jenks, A. G.,	6.85
Jenks, A. J.,	16.33
Jerald, J. M.,	19.56
King, R. B.,	177.43
Kennedy, J. P.,	9.00
LaFrance, Nelson,	21.69
Mack, J. F.,	78.01
McCrohan, Timothy,	187.83
McCullough, John,	.65
Manchester, F. W.,	38.98
Manchester, I. H.,	16.12
Manchester, J. W.,	322.72

N. B. Cordage Co.,	40.15
N. B. and Fairhaven Bridge,	29.40
N. B. Gas Light Co.,	1,310.89
Noel, B.,	6.64
Old Colony Railroad Co.,	18.30
O'Leary, Patrick,	67.49
Page, J. H.,	4.79
Paine & Bro., S. S.,	854.27
Paisler, C. S.,	19,431.77
Perkins & Chase,	5,638.60
Perry, Joseph,	3.79
Perry, J. F.,	32.82
Pierce, J. H.,	54.85
Poole, A. T.,	152.92
Poole, P. S.,	45.78
Poole, R. D.,	20.20
Potomska Mills,	6.00
Potter, Geo. A.,	92.73
Potter, Sarah C.,	45.79
Quirk, Patrick,	38.59
Reed, E. W.,	65.50
Richards, Geo. D.,	16.30
Rock St. Sewer,	2.45
Rogers, A.,	54.67
Rogers, Emily D.,	89.63
Rogers, Geo. W.,	20.65
Rogers, J. H.,	49.83
Russell, Edward,	3.00
Russell, Pardon,	6.85
Sanders, William,	6.55
Sawyer St. Sewer,	619.10
Shea & Richardson,	12.27
Sowle, F. A.,	10.55
Spencer, F. J.,	62.42
Spooner, J. W.,	157.75
Spooner, W. E.,	2.87
St. Claire, B.,	97.46
Stowell, B. I.,	204.97
Strong, Albert,	167.42
Sullivan, J. B.,	99.59
Sweeney, Daniel,	197.08
Sylvia, Joseph,	124.24
Sylvia, M. S.,	2.82
Tripp, Peleg,	2.36
Tripp, P. A.,	7.80

Upham, W. O. T.,	64.56	
Waite, Williams & Co.,	38.09	
Wallace, Alanson,	15.14	
Wamsutta Mills,	15.00	
Wilbur, James T.,	88.91	
Wilbur, Mrs. L. D.,	1.86	
Wilbur, S. B.,	10.36	
Wilbur, W. A.,	7.44	
Winslow, C. H.,	27.83	$41,671.13

MISCELLANEOUS:

Abbott, Downing Co.,	$39.50	
Allen & Son, A. W.,	4.85	
Almy & Hitch,	1.75	
Ames Plow Co.,	2.80	
Anthony & Sons, E.,	12.00	
Ashley, Isaac L.,	18.00	
Babbitt & Wood,	391.04	
Balderson, John,	3.30	
Booker, T. J.,	2.52	
Borden, C. F.,	42.56	
Borden, H. T.,	16.00	
Bowker & Tripp,	65.84	
Bradley, W. E.,	12.00	
Briggs & Lawrence,	11.50	
Brownell, Ashley & Co.,	.25	
Brownell, G. A.,	42.80	
Church & Hammond,	.81	
Coggeshall, Maxfield & Co.,	143.81	
Considine Bros.,	22.15	
Corson, T. S.,	116.25	
Cronin, William,	10.50	
Cummings, C. S. & B.,	16.20	
Cushing, C. F.,	2.25	
Davenport, G. E.,	20.00	
Davis, Emery,	5.00	
Dews, Edwin,	53.79	
DeWolf & Vincent,	95.59	
Douglass, F. M.,	4.62	
Drake, A. B.,	613.93	
Duff, John,	642.40	
Duff & Son, D.,	87.90	
Engineering Dep't,	338.10	
Ennis, J. H.,	22.32	
Fox, Agt. Geo. S.,	3.10	

Fredette, H. J.,	14.50
Frost & Adams,	15.90
Fuller, N. T.,	18.50
Gardner & Southwick,	5.65
Gates Iron Works,	54.37
Gifford & Co., T. J.,	26.39
Greene & Wood.	154.92
Greenough, W. A.,	4.00
Hadley, F. R.,	1.33
Handy, Jona.,	1,160.11
Hart & Akin,	14.71
Hart & Co., T. M.,	77.13
Haskell & Tripp,	.75
Hathaway, E. R.,	37.63
Hathaway, L. J.,	294.21
Hayden, Eugene,	12.00
Hayes, N. P.,	78.66
Hillman, Jethro,	7.36
Howland Mills Corp.,	21.66
Hutchings, Fredk.,	2.75
Hutchinson & Co., H. S.,	8.58
Jenkins, B. S.,	23.70
Jenney, B. F.,	1.75
Jenney & Buffington,	981.49
Journal Pub. Co.,	8.36
Kane & Bro., D. J.,	15.00
Kennedy, J. P.,	17.25
Kern & Wright,	2.60
Keuffel & Esser Co.,	34.35
King & Co., C. G.,	81.00
Kirby & Hicks,	12.50
Lawton, J. M. Jr.,	.40
Library Bureau,	2.50
Lowe, S. C.,	14.98
Lowrie, Joseph,	.50
Luce, T. R.,	2.00
McAfee, M. G.,	3.00
McIvor, James,	.84
Mercury Pub. Co.,	6.00
Moriarty Bros.,	6.06
Mosher, E. D.,	.60
N. B. Cordage Co.,	10.75
N. B. Gas Light Co.,	286.51
N. B. Monumental Marble Works,	5.00
N. B. Water Works,	17.08

Norton, Thomas,	16.26
Nye, Willard Jr.,	60.90
Nye, W. F.,	3.90
Old Colony Railroad Co.,	41.09
Old Colony Steamboat Co.,	.25
Odd Fellows Building Assoc'n,	1,000.00
Owen, Nancy,	15.00
Paine & Bro., S. S.,	97.74
Peckham, I. H.,	15.35
Peirce, E. M.,	3.50
Post Engineering Co.,	575.00
Purrington & Brown,	.33
Reed, E. W.,	15.00
Richards, Geo. D.,	25.90
Richards, W. D.,	8.00
Riehle Bros.,	21.38
Russell, Pardon Jr.,	29.75
Sawyer, S. P.,	12.47
Sherman & Son, C. R.,	22.40
Sherman, W. H.,	24.00
Sisson, J. L.,	29.96
So. Mass. Tel. Co.,	86.75
Sowle, F. A.,	5.10
Sowle & Co., F. L.,	241.81
Stetson, T. M.,	1.83
Stewart, Chloe A.,	10.00
Sullings, Kingman & Co.,	13.60
Sullivan, D. J.,	4.50
Swan, Edward,	30.50
Swift, W. C.,	4.38
Sylvia, J. L.,	45.75
Taber, R. A.,	11.19
Taber, R. W.,	1.68
Thompson, Charles,	2.50
Tillinghast, W. A.,	462.82
Tower, John,	7.68
Tripp, H. W.,	228.50
Union St. Railway Co.,	45.00
Waite, Williams & Co.,	36.43
Wakefield Rattan Co.,	133.65
Walker & Co., G. H.,	30.00
Washburn, W. H.,	1.98
White, L. H.,	.40
Wilbor, A. G.,	.60
Wing, C. F.,	5.44

Wood, Brightman & Co.,	230.66	
Wright Drug Co.,	4.46	10,076.15
		$145,845.75
To transfer to balance,		82.99
		$145,928.74

CR.

By appropriation,	$85,000.00	
Special appropriation,	25,000.00	
Cash receipts, as per Treasurer's report,	35,928.74	$145,928.74

NEW BEDFORD WATER WORKS.

Dr.

To expenditures, as per drafts of the N. B. Water Board,	$86,990.33	
1892, Jan. 4. To balance,	44,692.90	$131,953.23

Cr.

1891, Jan. 5. By balance,	$41,713.69	
By appropriation,	12,000.00	
Cash receipts, as per Treasurer's report,	78,239.54	$131,953.23

Cr.

1892, Jan. 4. By balance,	$44,962.90

PARKS AND SQUARES.

Dr.

Pay-rolls,	$547.50	
Baylies, William,	12.00	
Bliss, G. C.,	1.10	
General Sewers,	.20	
Gray, C. A.,	52.50	
Hayes, N. P.,	.30	
Jenney & Son, P. P.,	40.08	
Piper, D. M.,	8.00	
Richards, G. D.,	4.10	
Street Dept.,	191.99	$857.77
To transfer to balance,		1,669.23
		$2,527.00

Cr.

By appropriation,	$2,500.00	
Cash receipts, as per Treasurer's report,	27.00	$2,527.00

NEW BEDFORD SCHOOL COMMITTEE.

HOWLAND FUND.

Dr.

Adams, C. F.,	$2.50
American Book Co.,	132.39
Anderson, W. H. Jr.,	60.00
Appleton & Co., D.,	38.67
Berlitz & Co.,	4.00
Bliss & Nye,	5.43
Boston School Supply Co.,	102.53
Caproni & Bro., P. P.,	7.75
Chase & Co., E. B.,	10.00
Dews, E.,	2.00
Ditson & Co., O.,	9.25
Educational Pub. Co.,	79.45
Educator,	8.20
Eimer & Amend,	21.59
Gammons, Lottie M.,	12.00
Gardner, T. M.,	3.50
Ginn & Co.,	406.24
Goldthwaite's,	2.00
Gomley, J. A.,	6.50
Gray, C. A.,	4.86
Haskell & Tripp,	3.18
Hatch, W. E.,	27.28
Hatch & Co.,	25.10
Hathaway, Lottie,	19.55
Hayes, N. P.,	8.08
Heath & Co., D. C.,	187.22
Houghton, Mifflin & Co.,	44.54
Hutchinson & Co., H. S.,	246.83
Jennings, W. A.,	14.00
Kane & Bro., D. J.,	52.32
Kellogg & Co., E. L.,	5.95
Knowlton & Co., D. M.,	2.80
Lawton, Louise,	20.00
Leach, Shewell & Sanborn,	45.75
Lee & Shepard,	153.13
Ling, J. Henry,	3.05
Lothrop & Co., D.,	10.87
Mason & Co., Perry,	66.06
McAllister, T. H.,	90.00

McFarlin, James,	9.00	
Mercury Pub. Co.,	6.00	
Merrick, Emma J.,	22.05	
Peirce, Geo.,	452.25	
Perry, G. S.,	178.79	
Potter, Francis,	10.15	
Potter, Hattie L.,	24.00	
Richards, G. D.,	16.67	
Richter & Co., G. H.,	22.05	
Sherman & Son, C. R.,	3.10	
Silver, Burdett & Co.,	326.12	
Small, Willard,	33.50	
So. Mass. Tel. Co.,	1.50	
Sullings, Kingman & Co.,	3.34	
Taber, R. W.,	1.00	
Teachers Pub. Co.,	1.44	
Tillinghast, W. A.,	2.33	
University Pub. Co.,	24.74	
Ware & Co., W.,	.80	
Weaver Printing and Manuf'g Co.,	42.58	$3,125.78
1892, Jan. 4. To balance,		1,780.36
		$4,906.14

CR.

1891, Jan. 5. By balance,	$1,894.49	
By cash receipts, as per Treasurer's report,	3,011.75	$4,906.14

CR.

1892, Jan. 4. By balance,	$1,780.36

NEW BEDFORD AND FAIRHAVEN BRIDGE.

Dr.

Pay-rolls,	$2,361.73	
Bowen, G. S. & Son,	4.00	
Chace, Abram & Co..	79.51	
Driggs, James D.,	9.28	
General Sewers,	93.75	
Keith & Nye,	1.50	
Nicholson, J. B.,	2.00	
Street Dep't,	4,838.57	
Sturtevant, W. T.,	.43	
Tillinghast, W. A.,	5.57	
Tripp, S. A.,	6.80	$7,403.14
1892, Jan. 4. To balance,		2,634.67
		$10,037.81

Cr.

By appropriation,	$10,000.00	
Cash receipts, as per Treasurer's report,	37.81	$10,037.81

Cr.

1892, Jan. 4. By balance,	$2,634.67

LIGHTING THE STREETS.

Dr.

LIGHTS:		
Globe Gas Light Co., naptha,	$9,676.85	
N. B. Gas Light Co., electric,	11,674.76	
" " " gas,	8,757.84	$30,109.45
MISCELLANEOUS:		
Ashley, Isaac L.,	85.00	
Bradley, W. E.,	5.00	
Kempton's Est., F. A.,	18.75	
Kirby & Hicks,	13.00	
N. B. Gas Light Co.,	24.00	865.75
		$30,175.20

Cr.

By appropriation,	$27,500.00	
transfer to balance,	2,675.20	$30,175.20

INCIDENTALS.

Dr.

Advertising, Printing, &c.:		
Wright & Potter Printing Co.,		$50.31
Assessors:		
Anthony & Sons, E.,	$6.00	
Chappell, A. B.,	318.00	
Mills, M. T.,	372.50	
Paul, Frank,	271.00	
Purrington & Brown,	.12	
Richards, Geo. D.,	6.85	
Rodgers, John D.,	105.50	
Russell, H. C.,	435.00	
Russell, W. A.,	75.00	
Searles, Mortimer,	1.00	
Shaw, A. E.,	70.00	
Sherman, W. H.,	3.00	
Slater, James,	273.25	
Sowle & Co., F. L.,	1.75	
Terry, C. A. V.,	5.00	
Terry, K. C.,	2.50	
Topham, R. R.,	845.50	
Tuell, C. A.,	85.00	
Tuell, C. D.,	75.00	$2,951.97
Damages, Legal Expenses, &c.:		
Ashley, C. S.,	$15.00	
Barry, John,	88.00	
Clarke, J. F.,	75.00	
Clifford, Walter,	75.00	
Davoll, Salome B.,	500.00	
Desmond, T. F.,	584.95	
Dyer, Deborah B.,	1,500.00	
Enos, Manuel,	75.00	
Grinnell, Lawrence, and others,	600.00	
Herman, J. E.,	473.15	
Holmes, L. LeB.,	30.35	
Jones, Adeline W.,	400.00	
Kares, Wenzel, and others,	96.80	
Knowlton, H. M.,	150.00	
Owen, Joseph, Heirs of,	1,000.00	

Stratton, C. S.,	350.00	
Taylor, Dr. W. H.,	10.00	
Vanasse, Edward,	75.83	
Wilkinson, Barnard,	87.90	
Young, Lucinda,	25.00	$6,211.98
ELECTIONS:		
Ashley, C. S.,	$9.70	
Adams, M. U.,	20.00	
Baylies, Clifford,	42.00	
Bradley, W. E.,	6.00	
Briggs & Lawrence,	6.04	
Faunce, C. L.,	23.41	
Faunce, L. H.,	21.00	
Gomley, J. A.,	41.35	
Hayden, Eugene,	9.00	
Jones, I. M.,	5.00	
Jason, A. V.,	20.00	
Kirby & Hicks,	15.00	
Pell, Walter,	7.00	
Penney, E. F.,	3.00	
Piper, D. M.,	3.00	
Piper, J. A.,	11.00	
Precinct Officers,	1,082.00	
Reynolds, E. G.,	6.00	
Richards, W. D.,	6.00	
Saxon, G. E.,	24.00	
Sherman, W. H.,	6.00	$1,366.50
LABOR AND CLEANING:		
Ames, Richard,	$9.00	
Hood, W. H.,	2.00	
McAuliff, D. J.,	636.15	
Pell, Walter,	10.00	
Piper, A. D.,	165.00	
Piper, D. M.,	525.43	
Piper, J. A.,	7.00	$1,354.58
LIGHT AND FUEL:		
Crapo, W. H.,	$9.90	
Grinnell, Edmund,	5.27	
Hart & Akin,	521.50	
N. B. Gas Light Co.	2,251.43	
Notter, John,	1.80	
Phillips, H. T.,	10.00	
Phillips, Lawson,	50.00	$2,849.98

BIRTH, MARRIAGE AND DEATH RETURNS:

Fortin, Dr. J. E.,	$15.50	
Hanlon, Mary,	1.50	
Hough, Drs. G. T. and G. de N.,	3.75	
Howland, Dr. B. C.,	6.00	
Jameson, Esther,	5.25	
Jean, J. B.,	37.00	
Lagasse, A. B.,	13.00	
Leonard, D. B.,	710.20	
Leonard, Dr. M. H.,	18.50	
Lussier, Dr. C. F.,	15.25	
Murphy, T. J.,	26.50	
Normandin, Dr. L. J.,	57.50	
Perry, Dr. E. B.,	7.25	
Peterson, Dr. C. A. B.,	2.75	
Pothier, Dr. J. C.,	14.00	
Richardson, Sarah E.,	1.25	
Sullivan, J. D.,	32.00	
Sullivan, Dr. J. T.,	5.25	
Tripp, Harriet,	1.25	
Vaughn, W. C. Jr.,	51.00	
Webber, Dr. A. P.,	8.00	
Webster, Dr. Helen,	18.25	
Williams, J. S.,	15.00	
Williams & Paul,	16.75	
Wilson, E. T.,	69.50	$1,152.20

FOURTH OF JULY:

Acushnet B. B. Club,	$35.00	
Almy, James T.,	40.00	
Anthony & Sons, E.,	99.12	
Allen, J. & J. K.,	300.00	
Ballou, Jason L.,	8.48	
Barnes, Isaac,	3.00	
Bay View B. B. Club,	35.00	
Boucher, Joseph,	3.00	
Bradley, W. E.,	12.00	
Carroll, W. E.,	3.00	
Caswell, A. R.,	10.00	
Catholic Union,	10.00	
Central Union Assoc'n	.42	
Cornell & Swift,	12.00	
Corson, T. S.,	24.09	
Cunha, Joseph,	14.00	

Delano, James, Chairman,	145.00	
Donovan, S. E.,	7.00	
Drummond, A. F.,	7.00	
Duffy, J. L.,	7.00	
Dunse, Richard,	7.00	
Fire Works, Sub-committee,	8.65	
F. R. High School B. B. Club,	20.00	
Frigeau, Mrs.,	5.00	
Gardner, E. C.,	50.00	
Gandrou, J. A.,	1.00	
Gleason, Timothy,	30.00	
Gomley, J. A.,	22.00	
Gray, C. A.,	3.60	
Guthrie, W. W.,	3.00	
Hatch, W. W.,	5.00	
Hayes, N. P.,	15.00	
Hazzard, A. L.,	18.75	
High School B. B. Club,	35.00	
Howland Mills B. B. Club,	60.00	
Independent Athletic Club,	35.00	
Journal Pub. Co.,	56.39	
Kelley, C. S.,	83.53	
Kent, J. D. T.,	3.00	
Kirby & Hicks,	4.00	
Labor Band,	46.00	
Mercury Pub. Co.,	73.74	
Musical Exchange Band,	220.00	
N. B. Band,	220.00	
Pairpoint Manfg. Co.,	98.00	
Pollock, F. O.,	3.00	
Postal Telegraph Co.,	2.13	
Robenolt, E. S.,	3.00	
Robinson, Wm.,	3.00	
Sistare, F. B.,	100.00	
St. Joseph B. B. Club,	60.00	
Street Dep't,	2.69	
Taylor, J. Arthur,	10.47	
Taylor, Theodore,	3.00	
Thompson St. B. B. Club,	20.00	
Tilton & Co., H. H.,	650.00	
Tripp, H. W.,	11.31	
Union Veteran Legion,	115.00	
Upham, J. H.,	5.00	$2,887.37

INSPECTOR OF MILK AND PROVISIONS:

Ashley, Dr. D. C.,	$157.00	
Mercury Pub. Co.,	6.00	$163.00

MISCELLANEOUS:

Alden, Geo. N.,	$30.35
Anthony & Sons, E.,	30.00
Ashley, C. S.,	59.62
Ashley, Isaac L.,	15.85
Assessors,	75.00
Bancroft, J. V.,	60.00
Barnes, Isaac,	1.00
Baylies, Clifford,	17.50
Bliss, Geo. C.,	250.91
Boston Daily Advertiser,	8.25
Briggs & Lawrence,	40.00
Bristol Co.,	17.13
Butler, W. T.,	5.50
Carroll, W. E.,	1.00
Chamberlain,	49.00
Channing, Harriet E.,	26.69
City Treasurer, office expenses,	378.80
Coggeshall, Maxfield & Co.,	39.80
Cornell, C. F.,	290.32
Cummings, C. S. & B.,	6.87
Cushing, C. F.,	.75
DeWolf, E. A.,	95.35
Dews, Edwin,	39.79
Drake, A. B.,	91.16
Davis, O. A.,	7.64
Edwards, Charles,	1.00
Eldridge, R. S.,	359.13
Ellis, L. B.,	2.25
Faunce, C. L.,	54.67
Footman, John W.,	9.00
Fox, Agt. Geo. S.,	5.65
Gammons, E. H.,	12.00
G. A. R. Posts,	500.00
Greenough, W. A.,	12.00
Hammond Type Writer Co.,	100.00
Hart & Akin,	1.00
Hatch, G. E.,	2.10
Hatch & Co.,	4.25
Haughey, John,	17.63

Hawes, Est. Levi,	85.00
Hayes, N. P.,	1.35
Hoyt, Geo. S.,	1.03
Hutchinson & Co., H. S.,	14.90
Jenney, B. F.,	1.75
Jenkins, B. S.,	9.75
Kane & Bro., D. J.,	26.00
Kempton 2d, Est. David,	37.50
Kent, J. D. T.,	1.00
Kirby & Hicks,	65.75
Leonard, D. B., office expenses,	106.64
Lowe, William,	12.46
Lyon Platinum Pen Co.,	6.00
Maine, H. M.,	4.63
Mason, J. L. G.,	28.01
Maxfield, G. F.,	3.75
Mercury Pub. Co.,	30.00
N. B. Ice Co.,	72.45
N. B. Towboat Co.,	40.00
No. Congregational Church,	120.00
Old Colony Railroad Co.,	630.75
Peirce, E. M.,	27.50
Penney, E. F.,	.50
Peterson, Dr. C. A. B.,	350.00
Pitman, H. L.,	52.00
Prop's of Ricketson's Block,	700.00
Richards, G. D.,	59.20
Robenolt, E. S.,	1.00
Sage, O. F.,	14.00
Sanders, Wm., Supt.,	219.60
Searles, Mortimer,	19.75
Sherman & Son, C. R.,	2.92
Sherman, Ruth S.,	650.00
Sherman, W. H.,	11.25
Skiff, A. J.,	1.80
Smith, Henry,	5.98
Snow, Loum, Trustee,	35.00
So. Mass. Telephone Co.,	521.02
Strange & Wing,	3.75
Street Dep't,	413.22
Taber, R. W.,	2.85
Taylor, Theodore,	1.00
Topham, W. B., office expenses,	61.70
Tripp, F. H.,	1.00
Turner Electrical Mfg. Co.,	.50

Wady, A. B.,	.25	
Walker & Co., G. H.,	15.00	
Wheeler, A. L.,	1.60	
Whiting & Co., E. B.,	9.75	
Wilson, Geo.,	33.00	
Wilcox & Richmond Wharf Co.,	250.00	
W. U. Telegraph Co.,	42.00	$7,524.82
		$26,512.71

Cr.

By appropriation,	$5,478.75	
Special appropriations,	19 220.85	
Cash receipts, as per Treasurer's report,	47.71	
Transfers to balance,	1,765.40	$26,512.71

POLICE DEPARTMENT.

Dr.

Salaries:		
Daniel A. Butler, chief,	$1,500.00	
Luther M. Dayton, captain,	1,100.00	
James L. Wilber, "	1,100.00	
Lemuel D. Adams, lieutenant,	1,000.00	
Timothy C. Allen, "	1,000.00	
Seth C. Bryant, "	1,000.00	
Thomas W. Comstock, "	443.08	
Frederick Hussey, "	1,000.00	
Ellery Peirce, "	1,000.00	
Thomas J. Taft, "	1,000.00	
Henry N. West, clerk,	750.00	$10,893.08
Pay-Rolls:		
Pay of regular officers, housekeepers, &c.,	$48,815.89	
Pay of special police,	4,789.60	$53,605.49
Carriage and Horse Hire:		
Ames, H. M.,	$1.50	
Ashley, I. L.,	22.55	
Brownell, J. F.,	101.05	
Cook, Robert,	18.00	
Cornell, C. R.,	11.25	
Caswell, A. R.,	6.00	
Dwelley, Andrew,	4.35	
Hayden, Eugene,	3.50	
Jay, J. A.,	186.25	
Kirby & Hicks,	4.00	
Peirce, E. M.,	1.00	
Peirce, J. H.,	3.90	
Reynolds, E. G.,	4.85	
Richards, W. D.,	128.45	
Sherman, W. H.,	62.15	$558.80
Supplies:		
Alley, A. G., Jr.,	$ .90	
Blake, J. E.,	1.25	
Bliss & Nye,	18.45	
Briggs & Lawrence,	41.23	
Coggeshall, Maxfield & Co.,	2.50	

DeWolf & Vincent,	9.74	
Dews, Edwin,	10.40	
Driscol, Church & Hall,	31.00	
Evans & Co., D.,	55.00	
Folger, D. B.,	11.34	
French, S. A.,	15.27	
Hart & Akin,	321.40	
Kane & Bro., D. J.,	9.50	
Lawton, C. H. & H. A.,	8.60	
Richmond & Co., S. P.,	27.92	
Ripley, C. W.,	190.82	
Swift & Son, M. C.,	9.00	
Taber, R. W.,	49.07	
Tillson, H. H.,	2.25	$815.64

POLICE SIGNAL:

Alexander, Barney & Chapin,	$18.25	
Baylies, William,	36.11	
Beattie Zinc Works,	60.88	
Bird & Co., J. A. & W.,	23.16	
Bliss & Nye,	4.63	
Brownell, J. F.,	19.85	
Brownell, Ashley & Co.,	8.25	
Callahan Co., Corn's,	15.58	
Cronin, William,	57.87	
Denison Bros.,	27.48	
DeWolf & Vincent,	6.80	
Dunlap, A. A.,	1.50	
Durfee, E. M.,	6.90	
Ellis, L. B.,	16.50	
Fichtenmeyer & Flynn,	8.30	
Gifford, O. E.,	2.08	
Gifford & Co., T. J.,	.15	
Hayes, N. P.,	2.15	
Kirk, John,	31.75	
Lowe, S. C.,	3.40	
Lowell, Clarence,	8.96	
Macy, E. B.,	13.19	
N. B. Boiler and Machine Co.,	10.61	
N. B. Fire Dept.,	544.58	
N. E. Gamewell Co.,	84.89	
Penney, E. F.,	9.00	
Poor Dept.,	91.25	
Robinson & Co., W. A.,	1.75	
Sherman & Son, C. R.,	1.00	

So. Mass. Tel. Co.,	780.00	
Sullings, Kingman & Co.,	24.98	
Tripp, S. A.,	7.53	
Whiting & Co., E. B.,	41.21	$1,970.54

MISCELLANEOUS:

Allen, Jesse,	$1.46	
Anthony & Sons, E.,	3.84	
Arnett, J. W.,	14.55	
Ashley, Dr. D. C.,	8.00	
Barney, E. L.,	10.00	
Butler, D. A., expenses,	178.83	
Butler, D. A., Keeper of Lockup,	100.00	
Cannavan, Patrick,	8.29	
Case, J. M.,	109.37	
Dayton, L. M.,	5.45	
Dews, Edwin,	13.00	
Doane, R. N. B.,	3.50	
Dowden, James,	6.24	
Drew, M. C.,	2.25	
Fay, Thomas,	5.19	
Gifford, O. E.,	.85	
Gifford, P. B.,	10.00	
Gifford & Co., T. J.,	75.26	
Grinnell, Edmund,	3.51	
Ham & Co., L.,	5.25	
Hart & Co., T. M.,	.34	
Hathaway, F. L.,	47.15	
Hathaway, L. J.,	5.75	
Howland, I. C.,	48.00	
Hutchinson & Co., H. S.,	2.75	
Jennings, Julia A.,	28.75	
Journal Pub. Co.,	3.75	
Kelley, W. L.,	1.70	
Kempton, Est. F. A.,	18.75	
Maine, H. M.,	1.64	
Mercury Pub. Co.,	22.47	
Moynan, Robert,	11.68	
Mt. Washington Glass Co.,	3.00	
N. B. Boiler and Machine Co.,	11.98	
N. B. Gas Light Co.,	734.80	
N. B. Ice Co.,	38.20	
Nelson, Peter,	8.00	
Old Colony Railroad Co.,	.97	
Parker, J. C.,	46.92	

Peirce, J. H.,	18.00	
Peirce, Dr. A. M.,	18.00	
Pope, A. P.,	16.90	
Richards, G. D.,	4.75	
Ricketson, Daniel H.,	5.00	
So. Mass. Tel. Co.,	280.75	
Street Dep't,	1.00	
Sullivan, Timothy,	21.77	
Taft, T. J.,	3.50	
Taylor, Est. Dr. W. H.,	33.00	
Telford, John,	11.22	
Tripp, S. A.,	5.98	
Viall & Cook,	216.71	
Watson & Fuller,	1.10	
Wing, C. F.,	56.78	
Wixon, J. A.,	18.89	
Wing, J. B.,	13.60	
Wood, R. B.,	1.35	
Young, Emma,	59.25	$2,388.99
		$70,232.54

Cr.

By appropriation,	$56,500.00	
Special appropriation,	4,000.00	
Cash receipts, as per Treasurer's report,	3,532.44	
Transfer to balance,	6,200.10	$70,232.54

PUBLIC DEBT.

Dr.

1891, Jan. 5. To balance,		$6,255.25
To Principal (bonds) paid.	$50,000.00	
Interest on bonds,	68,445.00	
Interest on trust funds,	6,706.00	
Interest on notes,	12,369.59	137,520.59
		$143,775.84

Cr.

By appropriation,	$114,886.25	
Cash receipts, as per Treasurer's report,	25,000.00	$139,886.25
1892, Jan. 4. By balance,		3,889.59
		$143,775.84

Dr.

1892, Jan. 4. To balance,	$3,889.59

PRINTING, BINDING AND STATIONERY.

Dr.

Anthony & Sons, E.,	$948.85	
Dews, Edwin,	504.95	
Hobbs & Co., Samuel,	49.00	
Howland, Paul,	24.50	
Journal Pub. Co.,	818.76	
Kane & Bro., D. J.,	885.67	
Mercury Pub. Co.,	5,304.14	
Taber, R. W.,	542.05	$9,077.92

Cr.

By appropriation,	$4,000.00	
Special appropriations,	4,000.00	
Cash receipts, as per Treasurer's report,	43.13	
Transfer to balance,	1,034.79	$9,077.92

POOR DEPARTMENT.

Dr.

SALARIES:

Orrick Smalley, Secretary,	$1,268.10	
Thomas H. Knowles,	150.00	
William H. Mathews,	50.00	
James E. Stanton,	100.00	
Ella F. Bucklyn, Clerk,	550.00	
Dr. John T. Bullard, Physician,	1,599.81	
Dr. E. E. Waite,	22.19	
P. S. Macy, Sup't Almshouse,	850.00	
Mrs. P. S. Macy, Matron,	100.00	
Rev. G. A. Conibear, Chaplain,	93.00	
Rev. G. T. Flanders, "	3.00	
Rev. James Mitchell, "	54.00	
Samuel Damon, Sup't Wood-yard,	365.00	$5,205.10

GROCERIES:

Acushnet Co-op. Asse'n,	$191.50	
Alley, A. G. Jr.,	127.75	
Andre, Joseph,	9.00	
Barlow & Co., J. C.,	79.75	
Barstow, N.,	15.00	
Bates & Co., J. W.,	133.00	
Bates, Lot B.,	96.00	
Bedard, Edward,	17.00	
Bliss, Frank C.,	265.00	
Bradford, W. L.,	84.50	
Braley, J. W. Jr.,	337.00	
Bromley, David,	96.00	
Brownell & Son, C. H.,	219.50	
Burgess & Son, Thomas,	96.00	
Burke, William,	14.00	
Cedar St. Co-op. Assoc'n,	116.00	
Central Union Assoc'n,	678.50	
Chappell, W. H.,	81.25	
Chase, C. W.,	1.00	
Chase, Z. W.,	44.00	
Chausse, Joseph,	82.50	
Clark, R. H.,	118.00	
Coxen & Tripp,	33.00	
Cummings, C. S. & B.,	93.50	

Davenport, Dudley,	45.50
Davenport, G. E.,	152.00
Davis, C. S.,	142.50
Davis, James,	25.00
Dean, H. N.,	1.70
Desantels, S.,	78.00
Dillingham, A. L.,	91.00
Dugan, M.,	168.50
Dwight, James E.,	4.00
Fay, James,	14.50
Fernandez, Joseph,	5.50
Folger, D. B.,	628.00
Francis, John B.,	391.00
Fraiser, E. M.,	254.00
Gatie, Henry,	4.00
Gatie, Joseph,	56.00
Gifford Bros.,	35.25
Gifford, E. B.,	203.00
Gray Bros.,	276.85
Greenwood, John,	25.00
Gregory, Peter,	22.50
Hammond, H. S.,	274.00
Hindle, William,	246.00
Holcomb, Munroe,	365.50
Holcomb, Roland,	33.00
Howarth, James,	8.00
Howland, C. H.,	51.30
Howland, Ebenezer,	16.00
Hunter, Geo.,	238.50
Industrial Co-op. Assoc'n,	100.50
Kelley, J. R.,	6.00
Kelley & Mosher,	3.00
Koster, Jacob,	72.00
LaFrance, L. M.,	33.00
Low, J. A.,	175.00
Lowe & Co., James,	119.00
Luce, Thomas E.,	52.00
Luce, W. T.,	7.50
Macomber, Geo. W.,	58.00
Macy, J. Roland,	4.00
Magnant, Joseph,	16.00
McDonnell Bros.,	26.00
Milliken, Lewis E.,	125.00
Monte Pio Co-op. Assoc'n,	7.00
Morse, C. M.,	36.00

Murphy, Thomas,	124.00	
Murphy & Sullivan,	13.50	
Notter, John,	51.90	
Nye, A.,	133.50	
O'Neil, Mrs.,	7.50	
Palmer, W. L.,	200.25	
Patnude, J. C.,	11.00	
Patnude, Napoleon,	18.00	
Pelan, Thomas,	34.00	
Perry, Antone,	18.00	
Perry's Cash Store,	24.00	
Raymond, W. F.,	20.00	
Riley, John F.,	64.50	
Robinson, Daniel,	99.50	
Rock, James,	68.50	
Rogers, Manuel D.,	2.00	
Rose, David,	141.50	
Ruggles, David W.,	26.00	
Russell, Allen Jr.,	4.00	
Sherratt & Slocum,	10.00	
Sisson, F. E.,	39.00	
Slade, Caleb,	74.00	
Smith Bros.,	28.50	
Smith, E. B.,	101.00	
Smith, M. E.,	3.50	
Spooner, E. F.,	24.00	
Sullivan Bros.,	112.50	
Sullivan, P. F.,	74.00	
Taber & Son, O. R.,	178.18	
Taylor, J. C.,	30.00	
Tinkham, J. S.,	3.00	
Tilton, James M.,	4.00	
Tonge, William,	13.50	
Tripp, A. A.,	24.00	
Vignault, Urban,	17.00	
Washburn, A. B.,	216.00	
Weeks, H. S.,	25.00	
Wood & Co., E.,	45.50	
Wright, J. A.,	1.50	$9,810.68

BOOTS, SHOES AND CLOTHING:

Ashley & Peirce,	$28.13	
Buchell Shoe House,	3.83	
Davis & Co., J.,	6.00	
Devoll & Son, P.,	4.50	

Lucas, A. E.,	2.90	
Murphy, F. A.,	1.50	
Nichols & Damon,	6.25	
Phillips, Geo. A.,	1.50	
Sanders & Barrows,	9.50	
Union Boot and Shoe Co.,	6.00	$70.11

FUEL:

Corson, T. S.,	$108.13	
Douglass, M. S.,	384.00	
Duff & Son, D.,	6.50	
Grinnell, Edmund,	11.05	
Hart & Akin,	997.99	
Russell, J. A.,	2.00	
Street Dep't,	439.50	
Washburn,	2.00	$1,951.17

BURIALS:

Jean, J. B.,	$246.00	
Lagasse, A. P.,	35.00	
Murphy, T. J.,	116.00	
Sullivan, J. D.,	38.00	
Vaughn, W. C. Jr.,	78.00	
Williams, J. B.,	98.00	
Williams & Paul,	103.00	
Wilson, E. T.,	184.00	$898.00

MISCELLANEOUS:

Anthony & Sons, E.,	$8.67	
Ashley, Isaac L.,	20.60	
Bark Maria Lila and owners,	60.00	
Blake James E.,	4.00	
Bliss & Nye,	1.25	
City Treasurer,	1,366.77	
Cushing, C. F.,	.25	
Damon, Mrs. C. H.,	23.00	
Dews, Edwin,	2.00	
Douglass, F. M.,	1.75	
Gray, C. A.,	10.03	
Harris, Edmund,	64.93	
Hayden, Eugene,	8.50	
Jenney & Son, P. P.,	.95	
Journal Pub. Co.,	5.51	
Kirby & Hicks,	1.00	

Mara, J. C.,	1.25	
Mercury Pub. Co.,	9.50	
N. B. Ice Co.,	13.56	
Old Colony Railroad Co.,	153.48	
Penney, E. F.,	9.55	
Richards, Geo. D.,	4.25	
Richards, W. D.,	1.50	
Snow & Son, Loum,	233.50	
So. Mass. Tel. Co.,	57.00	
Swan & Son, W. D.,	15.20	
Swift, Dr. W. N.,	5.00	
Sylvia, A. L.,	64.00	
Taber, R. A.,	.50	
Wilson, William,	9.00	
Wood, W. T.,	11.00	
Wright Drug Co.,	7.50	$2,175.00

Paid State and Hospitals for Board of Persons out of the City:

Commonwealth of Massachusetts,	$211.25	
Massachusetts School for Feeble-Minded,	56.17	
St. Luke's Hospital,	14.36	
Taunton Lunatic Hospital,	6,705.12	
Westboro' Insane Hospital,	363.41	
Worcester Insane Asylum,	62.50	
Worcester Lunatic Hospital,	169.46	$7,582.27

Paid Cities and Towns for Supplies and Board of Persons out of the City:

Attleboro',	$30.00	
Barnstable,	21.25	
Boston,	244.04	
Brockton,	4.50	
Cambridge,	9.38	
Chelsea,	11.50	
Cottage City,	55.94	
Fairhaven,	145.75	
Fall River,	12.00	
Falmouth,	44.00	
Lawrence,	195 25	
Lowell,	7.85	
Mattapoisett,	43.40	
Nantucket,	72.00	
Springfield,	5.66	
Taunton,	46.00	
Worcester,	23.00	$971.52

ALMSHOUSE.

CLOTHING, HATS, CAPS, &C.:

Ashley & Peirce,	$3.00	
Davis & Co., J.,	64.03	
Devoll & Son, P.,	21.10	
Donaghy, Thomas,	10.13	
Faisneau, Geo. E.,	92.20	
Knowles & Co.,	28.37	
Lucas, A. E.,	21.20	
Moore & Diman,	103.18	
Nichols & Damon,	9.75	
Peirce & Co., S. D.,	11.74	
Sanders & Barrows,	4.00	
Spare, J. V.,	12.23	
Taber, Read & Gardner,	23.00	
Tillson, H. H.,	3.75	
Wing & Co., J. & W. R.,	21.75	$429.43

FURNISHINGS AND SUPPLIES:

Bliss & Nye,	$30.64	
Borden, C. M.,	25.15	
Bowen & Son, G. S.,	7.60	
Briggs & Lawrence,	24.67	
Church, C. H.,	13.49	
DeWolf & Vincent,	22.12	
Douglass, F. M.,	18.91	
Fire Dep't,	296.39	
Globe Gas Light Co.,	10.20	
Greene & Wood,	14.39	
Hadley, Frank R.,	15.48	
Handy, Jona.,	2.19	
Hart & Akin,	825.91	
Hart & Co., T. M.,	5.52	
Hayes, N. P.,	8.58	
Lawton, C. H. & H. A.,	85.21	
Leonard & Son, Samuel,	24.68	
Macy, W. J.,	4.16	
McCullough, John,	35.48	
Paine & Bro., S. S.,	4.42	
Peirce Furnishing Co.,	7.50	
Pope & Wood,	69.00	
Richards, Geo. D.,	30.91	
Sullings, Kingman & Co.,	37.76	

Taylor & Son, H. J.,	4.50	
Wilson & Wordell,	147.90	
Wing, C. F.,	42.75	
Wright Drug Co.,	12.50	$1,828.01

PROVISIONS AND GRAIN:

Baylies, William,	$866.96	
Borden, G. B.,	28.10	
Brownell, E. C.,	46.22	
Chadwick, E. E.,	844.76	
Cornell & Co., P.,	30.00	
Cummings, C. S. & B.,	169.55	
Davis & Hatch,	147.59	
Denison Bros. Co.,	922.28	
Driscol, Church & Hall,	965.05	
Macy, J. Roland,	151.54	
Macy, P. S. Jr.,	57.72	
Potter & Co., W. F.,	369.28	
Sherman & Son, I. C.,	24.15	
Smith & Wordell,	50.62	
Snell, D. A.,	.91	
Wing, Samuel,	17.60	$4,692.63

MISCELLANEOUS:

Acushnet Iron Co.,	$44.61	
Almshouse help,	2,834.00	
Anthony & Sons, E.,	6.00	
Blake, James E.,	21.35	
Brightman, A.,	13.65	
Brownell, Ashley & Co.,	223.32	
Cronin, William,	18.40	
Cushing, C. F.,	71.88	
Dean, L.,	15.00	
Delano, Gustavus,	59.51	
Douglass, J. O.,	200.00	
Grinnell, Edmund;	7.91	
Jenney & Son, P. P.,	3.97	
Kane & Bro., D. J.,	2.25	
Kelley, W. L.,	6.90	
Kirby & Hicks,	30.00	
Macy, P. S.,	2.65	
Magoon, Dr. W. M.,	37.25	
Mara, Dr. J. C.,	1.00	
Mercury Pub. Co.,	6.00	

Miller & Hook,	35.57	
Sherman, W. D.,	21.00	
So. Mass. Tel. Co.,	43.00	
Tripp, S. A.,	29.15	
White, Phineas,	3.60	
Wilson, D. W.,	163.31	
Wood, Brightman & Co.,	5.60	$3,906.88
		39,520.80
To transfer to balance,		605.18
		$40,125.98

Cr.

By appropriation,	$30,000.00	
Cash receipts, as per Treasurer's report,	10,125.98	$40,125.98

PUBLIC SCHOOLS—INCIDENTALS.

Dr.

Salaries:		
William E. Hatch, Sup't and Secretary,	$3,000.00	
Emma M. Almy, Clerk,	376.92	
T. D. Cook, Jr., "	265.19	
Henry Smith, Truant Officer,	800.00	$4,442.11
Pay-Rolls:		
Janitors, sweepers, etc.,		$10,693.66
Books and Stationery:		
American Book Co.,	$629.95	
Boston School Supply Co.,	244.40	
Frost & Adams,	94.75	
Ginn & Co.,	238.83	
Heath & Co., D. C.,	125.01	
Hutchinson & Co., H. S.,	62.14	
Kane & Bro., D. J.,	86.37	
Lawton, James M. Jr.,	6.23	
Lee & Shepard,	16.67	
Lippincott Co., J. B.,	55.00	
Perry, Geo. S.,	1,741.27	
Prang Educational Co.,	4.32	
Taber, R. B.,	6.25	
The Thorpe & Adams Mfg. Co.,	5.40	
Thompson, Brown & Co.,	91.95	
University Pub. Co.,	13.75	
Ware & Co., William,	132.15	
Weaver Printing and Mfg. Co.,	283.13	$3,840.57
Repairs of School-Houses:		
Bliss, Geo. H.,	$82.50	
Briggs, Geo. E.,	31.15	
Chase, Ezra B.,	970.00	
Clarkson, N. J.,	108.50	
Haskins & Son, O. R.,	94.24	
Karcher, Herman,	34.76	
Lowe, S. C.,	88.49	
Mason, J. L. G.,	19.39	
Maxfield & Son, Wm.,	218.20	
Nelson, Geo.,	66.68	

Penney, E. F.,	13.70	
Pope, A. P.,	16.18	
Sullings, Kingman & Co.,	82.98	
Tripp, Hiram C.,	39.23	
Underwood, John A.,	11.85	
West, W. R.,	155.15	
Wady, A. B.,	177.14	$2,210.14

Repairs of Heating Apparatus:

Gifford & Co., T. J.,	$1.04	
Hatch, Geo. E.,	12.51	
Hayden, W. G.,	41.03	
N. B. Boiler and Machine Co.,	37.52	
Tripp, S. A.,	306.98	
Wilson, D. W.,	26.84	$425.92

Fuel:

Ashley, Mary P.,	$51.37	
Beetle, Chas. D.,	1.65	
Crapo's Steam Mill,	10.50	
Gibbs, John E.,	7.75	
Hart & Akin,	4,548.42	
Hathaway Bros.,	4.00	
Holmes, A. W.,	17.75	
Phillips, Lawson,	196.86	$4,838.30

Supplies:

Hutchinson & Co., H. S.,	$11.25	
Perry, Geo. S.,	236.01	
Richter, Geo. H.,	8.55	
Richards, Geo. D.,	36.93	
Taylor & Son, H. J.,	586.62	
Thompson, J. R.,	4.62	
Whitcomb, A. G.,	1,852.21	$2,736.19

Miscellaneous:

Acushnet Co-op. Assoc'n,	85.65	
Adelphi Rink,	122.50	
Allen, C. R.,	.95	
Allen's Express,	1.50	
Almy & Hitch,	30.28	
American Bank Note Co.,	87.50	
Arnett, R.,	11.66	
Anthony & Sons, E.,	6.00	

Barnum, S. G.,	8.10
Bliss & Nye,	7.42
Borden, H. T.,	3.38
Bourne, Standish,	20.00
Briggs & Lawrence,	31.70
Brightman & Washburn,	58.59
Brownell & Co.,	16.35
Carr, F. B.,	6.38
Carson, C. J. R.,	65.00
Caswell, W. H.,	5.15
Chase & Co., E. B.,	5.50
Coggeshall, Maxfield & Co.,	8.74
Cook, S. H.,	400.00
Corish, John,	7.16
Cranston, O. W.,	3.75
Cregon, C. H.,	8.05
Cushing, C. F.,	5.50
Dammon, Geo. K.,	10.48
Delano, F. E.,	7.20
Delano's Sons, Geo.,	.50
Dennis, Valariah,	499.92
DeWolf & Vincent,	20.45
Dews, Edwin,	5.75
Donaghy, Thomas,	44.60
Dobson, Geo.,	4.00
Douglas, F. M.,	2.15
Duddy, James,	29.75
Eggars, S.,	1.10
Eimer & Amend,	22.89
Faisneau, Geo. E.,	13.67
Faunce, C. L.,	.52
Frost & Co., Geo.,	8.00
Gammons, E. H.,	34.50
Gardner, T. M.,	43.00
Gilbert, E. S.,	2.15
Gray, C. A.,	38.53
Grinnell, Edmund,	44.93
Hammett, J. L.,	3.17
Handy, Caleb,	10.75
Hart & Co., T. M.,	12.46
Haskell, E. S.,	6.87
Haskell & Tripp,	1.10
Hatch & Co.,	26.00
Hatch, W. E.,	34.71
Hathaway, A. B.,	22.00

Hathaway, G. B.,	20.00
Hathaway, J. C.,	8.00
Hayden, Eugene,	4.50
Hayes, L. G.,	10.00
Hayes, N. P.,	.35
Hazard, J. B.,	167.67
Heron, J. T.,	4.67
Hinckley, Mary R.,	4.83
Hutchinson & Co., H. S.,	7.60
Jenney & Buffington,	9.87
Jenney & Son, P. P.,	1.50
Jennings, W. A.,	34.26
Johnson & Howland,	30.19
Journal Pub. Co.,	2.50
Kane & Bro., D. J.,	6.00
Kelley, W. L.,	9.25
Lawrence, C. E.,	2.70
Levi, Mary,	45.75
Lewis, B. F.,	37.13
Macy, J. Roland,	4.47
Maxfield, Geo. F.,	.90
Mercury Pub. Co.,	6.00
McAfee, John K.,	25.00
Morton, E. F.,	9.95
Moulton, A. G.,	94.75
N. B. Cordage Co.,	.50
N. B. Gas Light Co.,	1,197.11
N. B. Steam Carpet Beating Estab.,	21.91
Nickerson, Willetta B.,	.68
Old Colony Railroad Co.,	24.24
Other, Samuel,	11.55
Parker, E. J.,	4.50
Peirce, E. M.,	2.00
Peirce, William,	15.00
Percy, Thomas,	5.00
Phillips, Henry T.,	249.75
Pierce, E. H.,	.65
Pollock, F. O.,	11.30
Poole, R. S.,	5.00
Potter, E. L.,	1.68
Potter, Francis,	1.90
Purrington & Brown,	12.42
Sherman & Son, C. R.,	86.16
Sherman, W. H.,	24.75
Slocum, F. R.,	28.45

So. Mass. Tel. Co.,	128.69	
Sowle & Co., F. L.,	27.89	
Spooner, J. W.,	7.50	
Sullivan, D. J.,	98.00	
Sullivan, M. H.,	28.00	
Sylvia, John,	20.82	
Taber, R. W.,	1.47	
Tallman, E. S.,	.72	
Thompson, Charles,	3.41	
Tripp, S. A.,	419.84	
Tripp, L. G.,	22.24	
Tynon, J. F.,	3.00	
U. S. Express Co.,	.25	
Waite, B. H.,	107.16	
Washburn, F. P.,	9.50	
White, A. P.,	98.20	
Whiting & Co., E. B.,	18.25	
Wing, C. F.,	269.08	
Wood, James A.,	87.80	
Wood, Brightman & Co.,	6.64	
Woodhouse, R. H.,	2.50	
Wright Drug Co.,	7.20	$5,501.51
		34,688.40
To transfer to balance,		1,312.40
		$36,000.80

Cr.

By appropriation,	$28,000.00	
Special appropriations,	8,000.00	
Cash receipts, as per Treasurer's report,	.80	$36,000.80

PUBLIC WORKS—PERMANENT IMPROVEMENT.

Dr.

Pay-Rolls,		$1,982.05
Supplies:		
Greene & Wood,	$23.17	
McCullough, John,	25.50	
Macy, E. B.,	2.85	
N. B. Cordage Co.,	19.91	
Paine & Bro., S. S.,	1,062.31	
Street Dep't,	4,242.44	5,376.18
		$7,358.23
1892, Jan. 4. To balance,		4,750.07
		$12,108.30

Cr.

By special appropriation,	$12,000.00	
Cash receipts, as per Treasurer's report,	108.30	$12,108.30

Cr.

1892, Jan. 4. By balance,	$4,750.07

PUBLIC SCHOOLS—REPAIRS OF BUILDINGS.

Dr.

ACUSHNET:		
Carr, F. B.,	$52.67	
Herlihy, Patrick,	24.50	
Morton, E. F.,	85.97	
Perkins & Chase,	56.00	
Poole, R. D.,	27.00	
Sylvia, John,	28.50	
Tillinghast, W. A.,	8.10	
Washburn, F. P.,	43.25	
West, W. R.,	.20	$326.19
ACUSHNET AVENUE:		
Chace, Ezra B.,	$65.39	
Hart & Akin,	58.97	
Hayes, N. P.,	.50	
N. B. Boiler and Machine Co.,	1.63	
Penney, E. F.,	12.07	
Perkins & Chase,	30.20	$168.76
BENJAMIN:		
Maxfield & Son, William,	$2.90	
N. B. Boiler and Machine Co.,	7.49	
Taber, R. A.,	2.21	
Tripp, S. A.,	3.70	
Wood, Brightman & Co.,	.48	$16.78
CANNONVILLE:		
Tripp, H. W.,		$24.46
CEDAR STREET:		
Hatch, Geo. E.,	$23.36	
Swift, P. R.,	50.40	$73.76
CEDAR GROVE STREET:		
Haskins & Son, O.,	$569.49	
Holmes, D. W.,	115.21	
Mahoney, T. E.,	130.41	
Pope, A. P.,	7.73	
Slocum, F. R.,	.15	
West, W. R.,	120.01	
Wilson, D. W.,	365.23	$1,308.23

CLARK'S POINT:

Briggs, Geo. E.,	$74.10	
Karcher, Herman,	38.60	
West, W. R.,	1.25	$113.95

DARTMOUTH STREET:

Briggs, Geo. E.,	$34.92	
Chace, Ezra B.,	21.02	
Karcher, Herman,	4.93	
Woodhouse, R. H.,	68.58	$129.45

FIFTH STREET:

Chace, Ezra B.,	$184.04	
Dean, Thomas,	7.00	
Hart & Akin,	3.59	
Hayden, W. G.,	1.00	
Jenney & Buffington,	6.20	
Tripp, S. A.,	12.63	$214.46

FOURTH STREET:

Chace, Ezra B.,	$327.09	
Jenney & Buffington,	1.45	
Sherman, J. H.,	14.00	
Tripp, S. A.,	13.89	$356.43

GROVE:

Chace, Ezra B.,		$1.80

HARRINGTON:

Caswell, W. H.,	$8.48	
Holmes, D. W.,	266.57	
Pope, A. P.,	36.77	
West, W. R.,	5.00	$316.82

HIGH:

Hayes, L. G.,	$1.60	
Lloyd Bros.,	68.45	
Maxfield & Son, William,	19.48	
N. B. Boiler and Machine Co.,	18.14	
Peirce, William,	22.10	
Pope, A. P.,	82.80	
Wilson, D. W.,	577.33	
Wood, Brightman & Co.,	72.35	$862.25

HIGH STREET:

Chace, Ezra B.,		$2.83

KEMPTON STREET:

Hayes, L. G.,		$1.60

LINDEN STREET:

Crapo, Peter,	$6.88	
Lowe, S. C.,	113.28	
Morton, E. F.,	178.13	
Paisler, C. S.,	77.58	
Poole, R. D.,	11.25	
Sawin, A. K. P.,	60.00	
Sullivan, M. H.,	119.28	
West, W. R.,	51.83	$618.23

MAXFIELD STREET:

Haskins & Son, O.,	$141.26	
Hatch, Geo. E.,	864.07	
Holmes, D. W.,	228.53	
Lloyd Bros.,	8.37	
Paine & Bro., S. S.,	1.35	
Tillinghast, W. A.,	7.12	$1,250.70

MERRIMAC STREET:

Carr, F. B.,	$77.66	
Lowe, S. C.,	43.93	
Sherman & Son, C. R.	.50	
Sullivan, Martin H.,	125.46	$247.55

MIDDLE STREET:

Babbitt & Wood,	$2.36	
Haskell, E. S.,	7.69	
Haskell, W. H.,	86.10	
Lewis, B. F.,	4.95	
Pope, A. P.,	64.36	
Sowle, F. A.,	1.25	$166.71

NORTH:

Chase, C. F.,		$44.83

PARKER STREET:		
Corish, John,	$ .40	
Duff & Son, D.,	19.00	
Haskins & Son, O.	19.07	
Hatch, Geo. E.,	11.23	
Haughey, John,	1.25	
N. B. Boiler and Machine Co.,	52.87	
Perkins & Chace,	10.50	
Thompson, Charles,	61.80	$176.12
PLAINVILLE:		
Poole, P. S.,		$2.03
ROCKDALE:		
Ennis, J. H.,	$60.00	
Haskins & Son, O.,	58.87	
Potter, Geo. A.,	26.00	$144.87
THOMPSON STREET:		
Babbitt & Wood,	$32.46	
Briggs, Geo. E.,	20.10	
Jenney & Buffington,	.79	
Karcher, Herman,	2.61	
Lewis, B. F.,	3.36	$59.32
WILLIAM STREET:		
Clarkson, N. J.,	$3.00	
Coggeshall, Maxfield & Co.,	1.80	
Jenney & Son, P. P.,	16.64	$21.44
MISCELLANEOUS:		
Perkins & Chase,	$9.00	
Street Dep't,	237.65	
Wilson, D. W.,	98.94	$345.59
		$6,995.16
To transfer,	$21.07	
1892, Jan. 4. To balance,	2,400.00	$2,421.07
		$9,416.23

CR.

By appropriation,	$4,500.00	
Special appropriations,	4,900.00	
Cash receipts, as per Treasurer's report,	16.23	$9,416.23

CR.

1892, Jan. 4. By balance,	$2,400.00

REPAIRS OF CITY PROPERTY.

Dr.

Almshouse:		
Delano, Gustavus,	$23.12	
Faunce, C. L.,	38.34	
Nelson, Geo.,	8.33	
Paisler, C. S.,	20.90	
Perkins & Chase,	7.20	
Sherman, J. L.,	10.99	
Wilson, D. W.,	80.01	$188.89
City Hall Building:		
Briggs & Lawrence,	$24.75	
Coggeshall, Maxfield & Co.,	2.50	
Hillman, Jethro,	14.65	
Houle, F. X.,	8.68	
Look, J. W.,	1.40	
Sherman & Son, C. R.,	.80	
Street Dep't,	51.14	
Wady, A. B.,	.50	
Wood, Brightman & Co.,	10.70	$115.12
Engine Houses:		
Bliss, Geo. H.,	$48.14	
Faunce, C. L.,	478.40	
Hammond, F. W.,	259.05	
Hart & Akin,	156.62	
Holmes, D. W.,	61.52	
Lowe, S. C.,	15.95	
Sherman, J. L.,	118.32	
Street Dep't,	84.29	
West, W. R.,	55.12	
Wood, Brightman & Co.,	4.50	$1,281.91
Library Building:		
Almy & Hitch,	$21.05	
Briggs & Lawrence,	6.50	
Caswell, W. H.,	3.13	
Cranston, O. W.,	9.50	
Faunce, C. L.,	7.79	
Gifford & Co., T. J.,	2.15	

Hillman, Jethro.	68.34	
Houle, F. X.,	33.84	
Jenkins, B. S.,	2.50	
Look, John W.,	5.35	
McAuliffe, D. J.,	10.00	
Moriarty Bros.,	33.69	
N. B. Boiler and Machine Co.,	1.00	
N. B. Gas Light Co.,	5.23	
Nelson, Geo.,	47.65	
Perkins & Chase,	13.15	
Sherman & Son, C. R.,	20.00	
Taber, R. A.,	6.96	
Tripp, S. A.,	20.00	
Wady, A. B.,	28.68	
Wing, C. F.,	25.93	
Wood, Brightman & Co.,	87.03	$459.47
POLICE STATIONS:		
Faunce, C. L.,	$58.99	
Street Dep't.	18.28	
Tripp, S. A.,	15.00	
West, W. R.,	102.15	$194.42
WARD ROOMS:		
Briggs & Lawrence,	$10.80	
Faunce, C. L.,	2.85	
Wood, Brightman & Co.,	2.80	$16.45
MISCELLANEOUS:		
Ashley, I. L.,	$2.50	
Black, Peter,	20.20	
Blossom, A. F.,	60.53	
Borden, C. F.,	1.38	
Briggs & Lawrence,	7.75	
Brightman, C. O.,	53.30	
Brown, W. S.,	17.73	
City Treasurer,	25.00	
Faunce, C. L.,	10.79	
Gifford & Co., T. J.,	315.00	
Greene & Wood,	2.07	
Hinds, M. B.,	4.50	
Moriarty Bros.,	25.50	
N. B. Gas Light Co.,	62.21	
Pomeroy, H. G.,	1.50	

Pope, A. P.,	83.66	
Purrington & Brown,	1.84	
Richards, Geo. D.,	8.00	
Street Dep't,	1.00	
Taylor & Son, H. J.,	.80	
Tripp, Beetle & Oesting,	15.00	
Wady, A. B.,	2.95	
Wood, Brightman & Co.,	.60	$723.81
		$2,980.07
To transfer,	$419.93	
1892, Jan. 4. To balance,	875.00	1,294.93
		$4,275.00

CR.

By appropriation,	$3,000.00	
Special appropriations,	1,275.00	$4,275.00

CR.

By balance,	$875.00

SEWERS—GENERAL ACCOUNT.

Dr.

Pay-Rolls,	$8,553.35
Acushnet Iron Co.,	281.44
Ashley, A. Davis,	10.00
Baylies, William,	6.00
Bliss & Nye,	.74
Boston Woven Hose Co.,	165.00
Braley, J. W. Jr.,	1.26
Brightman & Washburn,	2.80
Butler, W. P.,	1.60
Coggeshall, C. W.,	36.79
Coggeshall, Maxfield & Co.,	3.00
Corson, T. S.,	123.75
Crapo, Peter,	202.38
DeWolf & Vincent,	64.90
Donaghy, Thomas,	7.50
Drake, A. B.,	9.50
Duff & Son, David,	29.64
Duffy, John,	30.00
Edson Manfg. Co.,	188.00
Engineering Dep't,	335.10
Fichtenmeyer & Flynn,	9.48
Finni, C. D.,	.56
Gibbs. John E.,	2.00
Grape St. Sewer Extension,	175.21
Gray, C. A.,	235.18
Greene & Wood,	157.79
Grinnell, Edmund,	185.27
Haggerty, J. T.,	1.60
Hatch, G. E.,	2.00
Hayden, W. G.,	4.75
Higgins, E. O.,	1.20
Howland, C. H.,	14.26
Hutchings, Fred.,	.20
Kirby & Hicks,	14.00
Lowe, S. C.,	33.13
McCullough, John,	82.40
N. B. Cordage Co.,	8.19
N. B. and Fairhaven Bridge,	8.41
N. B. Gas Light Co.,	59.79
N. B. Water Works,	26.50
Old Colony Railroad Co.,	1.09

Old Colony Steamboat Co.,	2.55	
Paine & Bro., S. S.,	18,598.80	
Paisler, C. S.,	71.67	
Penney, E. F.,	7.70	
Potter, E. L.,	1.00	
Potter, Dr. W. G.,	14.00	
Public Works—Perm. Improvements,	108.30	
Richards, G. D.,	47.55	
Richardson, G. W.,	90.80	
Russell, John A.,	72.00	
Russell, W. A.,	65.00	
Sawyer St. Sewer,	787.14	
Shea & Richardson,	67.10	
Sowle, F. A.,	2.60	
Street Dep't,	10,949.17	
Thayer & Raphael,	1.65	
Tillinghast, W. A.,	452.96	
Tripp, Julia M.,	48.74	
Union Boot and Shoe Co.,	3.50	
Wainer, C. S.,	1.70	
Wamsutta Mills,	84.15	
West End Pharmacy,	1.40	
White, Phineas,	8.88	
Wood, Brightman & Co.,	4.80	$42,568.92
To transfer to balance,		874.86
		$43,443.78

Cr.

By appropriation,	$1,000.00	
Special appropriations,	30,273.00	
Cash receipts, as per Treasurer's report,	12,170.78	$43,443.78

SEWERS—BABBITT STREET.

DR.

Pay-Rolls,	$972.66	
Drake, A. B.,	21.50	
Gray, C. A.,	4.80	
Greene & Wood,	4.45	
Sewers, General Account,	450.93	
Street Dep't,	59.62	
Sylvia, Joseph,	17.25	$1,531.21

CR.

By appropriation, special,	$1,400.00	
Transfer to balance,	131.21	$1,531.21

SEWERS—BOWDITCH STREET No. 3.

DR.

Pay-Rolls,	$1,438.76	
DeWolf & Vincent,	4.00	
Drake, A. B.,	19.50	
Footman, J. W.,	.40	
Gray, C. A.,	16.59	
Greene & Wood,	61.55	
N. B. Cordage Co.,	17.28	
Richards, G. D.,	3.00	
Sewers, General Account,	252.10	
Spencer's Wood-yard,	1.25	
Street Dep't,	75.50	
Sycamore Street Sewer No. 2,	6.35	
Taylor, Est. Dr. W. H.,	5.00	$1,901.28

CR.

1891, Jan. 5. By balance,	$1,000.00	
By special appropriations,	627.49	
Cash receipts, as per Treasurer's report,	2.88	
Transfer to balance,	270.91	$1,901.28

SEWERS—BULLOCK STREET.

Dr.

Pay-Roll,	$249.93	
Gray, C. A.,	10.47	
Drake, A. B.,	16.75	
Sewers, General Account,	238.73	
Street Dep't,	18.64	$534.52
To transfer to balance,		475.95
		$1,010.47

Cr.

By special appropriation,	$1,000.00	
Cash receipts, as per Treasurer's report,	10.47	$1,010.47

SEWERS—RELAYING OF CAMPBELL STREET.

Dr.

Pay-Rolls,	$867.93	
Drake, A. B.,	26.50	
Sawyer Street Sewer,	8.05	
Sewers, General Account,	237.24	
Street Dep't,	76.20	
Sullivan, Dr. J. F.,	9.00	$1,224.92
To transfer to balance,		275.08
		$1,500.00

Cr.

By special appropriation,	$1,500.00

SEWERS—COUNTY STREET No. 4.

Dr.

Pay-Roll,	$94.00	
County Street Sewer No. 5,	1.63	
Drake, A. B.,	20.50	
Sewers, General Account,	119.84	
Street Dep't,	9.68	
Tillinghast, W. A.,	1.14	$246.79
To transfer to balance,		53.21
		$300.00

Cr.

1891, Jan. 5. By balance,	$300.00

SEWERS—COUNTY STREET No. 5.

Dr.

Pay-Roll,	$426.31	
Drake, A. B.,	18.50	
Sewers, General Account,	683.61	
Street Dep't,	29.78	$1,158.20
To transfer to balance,		43.43
		$1,201.63

Cr.

By special appropriation,	$1,200.00	
Cash receipts, as per Treasurer's report,	1.63	$1,201.63

SEWERS—COUNTY STREET No. 6.

DR.

Pay-Roll,	$448.52	
Drake, A. B.,	19.00	
Gray, C. A.,	1.28	
Sawyer Street Sewer,	4.88	
Sewers, General Account,	176.70	
Street Dep't,	30.94	$681.32
To transfer to balance,		118.68
		$800.00

CR.

By special appropriation,	$800.00

SEWERS—EMERSON STREET.

DR.

Pay-Roll,	$180.44	
Gray, C. A.,	14.40	
Sewers, General Account,	118.35	
Street Dep't,	11.92	$325.11
1892, Jan. 4. To balance,		574.89
		$900.00

CR.

By special appropriation,	$900.00

CR.

1892, Jan. 4. By balance,	$574.89

SEWERS—GRAPE STREET EXTENSION.

Dr.

Pay-Rolls,	$1,384.41	
Baker, D. W.,	.28	
Borden, H. T.,	20.50	
Gray, C. A.,	.90	
Greene & Wood,	47.54	
Hayden, W. G.,	5.08	
Jenney & Buffington,	22.48	
Kelley, W. L.,	3.00	
Paisler, C. S.,	85.20	
Sewers, General Account,	21.42	
Snow, Robert,	7.00	
Street Dep't,	162.30	
Taylor, Dr. W. H.,	44.00	
Tripp, Peleg,	12.10	$1,816.21
1892, Jan. 4. To balance,		1,372.35
		$3,188.56

Cr.

1891, Jan. 5. By balance,	$2,939.10	
By cash receipts, as per Treasurer's report,	249.46	$3,188.56

Cr.

1892, Jan. 4. By balance,	$1,372.35

SEWERS—HILLMAN STREET No. 3.

Dr.

Pay-Rolls,	$857.30	
Drake, A. B.,	21.50	
DeWolf & Vincent,	1.30	
Hillman Street Sewer, Tripp's Brook Extension,	48.04	
Sewers, General Account,	1,367.10	
Street Dep't,	64.42	$2,359.66
To transfer to balance,		440.34
		$2,800.00

Cr.

By special appropriation,	$2,800.00

SEWERS—HILLMAN STREET, TRIPP'S BROOK EXTENSION.

Dr.

Pay-Rolls,	$988.88	
Gray, C. A.,	6.35	
McCullough, John,	6.60	
N. B. Cordage Co.,	.96	
Paine & Bro., S. S.,	412.55	
Sawyer Street Sewer,	211.00	
Sewers, General Account,	155.15	
Street Dep't,	113.57	
Tillinghast, W. A.,	36.75	$1,931.81
To transfer to balance,		133.74
		$2,065.55

Cr.

By special appropriation,	$2,000.00	
Cash receipts, as per Treasurer's report,	65.55	$2,065.55

SEWERS—HYACINTH STREET.

Dr.

Pay-Roll,	$59.39	
Drake, A. B.,	8.50	
Sewers, General Account,	128.50	
Street Dep't,	6.26	$202.65
To transfer to balance,		197.35
		$400.00

Cr.

By special appropriation,	$400.00

SEWERS—JUNIPER AND LARCH STREETS.

Dr.

Pay-Rolls,	$3,299.50	
Borden, H. T.,	4.13	
Delano, F. E.,	.70	
Drake, A. B.,	27.00	
Gray, C. A.,	176.30	
Greene & Wood,	94.00	
N. B. Cordage Co.,	7.25	
Sewers, General Account,	710.52	
Street Dep't,	498.83	
Sylvia, Joseph,	15.00	$4,833.23

Cr.

By special appropriations,	$4,300.00	
Transfer to balance,	533.23	$4,833.23

SEWERS—MARGIN STREET.

Dr.

Pay-Rolls,	$399.81	
Gray, C. A.,	14.58	
Drake, A. B.,	16.50	
Moriarty Bros.,	.62	
Sewers, General Account,	991.36	
Street Dep't,	37.69	$1,460.56

Cr.

By special appropriation,	$1,000.00	
Transfer to balance,	460.56	$1,460.56

SEWERS—MARVIN STREET.

Dr.

Pay-Rolls,	$426.37	
Drake, A. B.,	16.50	
Gray, C. A.,	22.65	
Gregory, John,	.75	
N. B. Water Works,	3.25	
Sewers, General Account,	136.15	
Street Dep't,	45.74	$651.41

Cr.

By special appropriation,	$500.00	
Transfer to balance,	151.14	$651.41

SEWERS—MILL STREET No. 4.

Dr.

Pay-Rolls,	$887.42	
Drake, A. B.,	27.50	
Hillman Street Sewer, Tripp's Brook Extension,	16.88	
Sawyer Street Sewer,	1.30	
Sewers, General Account,	446.98	
Street Dep't,	100.07	
Tillinghast, W. A.,	5.76	$1,485.91
To transfer to balance,		1,514.09
		$3,000.00

Cr.

By special appropriation,	$3,000.00

SEWERS—PURCHASE STREET No. 5.

Dr.

Pay-Rolls,	$576.84	
Drake, A. B.,	24.50	
Sewers, General Account,	328.97	
Street Dep't,	24.84	$955.15
To transfer to balance,		44.85
		$1,000.00

Cr.

By special appropriation,	$1,000.00

SEWERS — ROCK STREET.

Dr.

Pay-Rolls,	$277.35	
Drake, A. B.,	13.00	
Gray, C. A.,	18.05	
Sawyer Street Sewer,	21.40	
Sewers, General Account,	105.80	
Street Dep't,	41.77	$477.37
To transfer to balance,		125.08
		$602.45

Cr.

By special appropriation,	$600.00	
Cash receipts, as per Treasurer's report,	2.45	$602.45

SEWERS — SAWYER STREET.

Dr.

Pay-Rolls,	$30,782.93	
Ames Plow Co.,	27.00	
Bullock St. Sewer,	10.47	
Central Union Assoc'n,	9.31	
Coggeshall, C. W.,	52.12	
Corson, T. S.,	89.04	
DeWolf & Vincent,	37.90	
Donaghy, Thomas,	31.50	
Engineering Dep't,	5.25	
Footman, J. W.,	1.25	
Gray, C. A.,	2,225.58	
Greene & Wood,	572.84	
Ingersol, Sargent Drill Co.,	592.16	
Knight, G. B.,	32.50	
Lowe, J. H.,	48.83	
Lowe, S. C.,	83.02	
McCullough, John,	99.52	
N. B. Boiler and Machine Co.,	46.21	
N. B. Cordage Co.,	101.38	
N. B. Water Works,	30.29	
Old Colony Railroad Co.,	20.82	
Otheman & Dunham,	.15	
Paine & Bro., S. S.,	10,113.99	
Pease, F. R.,	6.70	
Russell, J. A.,	140.00	
Sampson, G. H.,	1,102.50	
Sewers, General Account,	2,063.39	
Shea, Michael,	.50	
Spencer's Wood-yard,	43.25	
Street Dep't,	3,462.02	
Tillinghast, W. A.,	115.48	
West, W. R.,	6.00	
White, Phineas,	2.60	$51,956.50

Cr.

By special appropriation,	$50,000.00	
Cash receipts, as per Treasurer's report,	1,665.87	
Transfer to balance,	290.63	$51,956.50

SEWERS—SEARS STREET.

Dr.

Pay-Rolls,	$368.96	
Drake. A. B.,	22.50	
Greene & Wood,	18.59	
Sewers, General Account,	123.75	
Street Dep't,	79.27	$613.07

Cr.

By special appropriation,	$500.00	
Transfer to balance,	113.07	$613.07

SEWERS—SHAWMUT AVENUE No. 3.

Dr.

Pay-Rolls,	$1,402.41	
Sawyer St. Sewer,	6.00	
Sewers, General Account,	473.66	
Street Dep't,	70.28	$1,952.35
1892, Jan. 4. To balance,		47.65
		$2,000.00

Cr.

By special appropriation,	$2,000.00

Cr.

1892, Jan. 4. By balance,	$47.65

SEWERS — SMITH AND WALDEN STREETS.

Dr.

Pay-Roll,	$52.74	
Hatch, G. E.,	1.25	
Hathaway, D. L.,	1.20	
Street Dep't,	.85	$56.04
To transfer to balance,		111.81
		$167.85

Cr.

1891, Jan. 5. By balance,	$167.85

SEWERS — SOUTH WATER STREET No. 9.

Dr.

Pay-Rolls,	$627.17	
Drake, A. B.,	59.00	
Gray, C. A.,	37.94	
Moriarty Bros.,	3.54	
Sewers, General Account,	324.52	
Street Dep't,	104.29	$1,158.46
To transfer to balance,		346.15
		$1,502.61

Cr.

By special appropriation,	$1,500.00	
Cash receipts, as per Treasurer's report,	2.61	$1,502.61

SEWERS—SYCAMORE STREET No. 2.

Dr.

Pay-Rolls,	$1,775.65	
Drake, A. B.,	19.00	
Grape St. Sewer Extension,	14.85	
Gray, C. A.,	5.35	
Greene & Wood,	136.41	
Paine & Bro., S. S.,	13.87	
Sewers, General Account,	480.40	
Street Dep't,	53.77	
White, Phineas,	30.35	$2,529.65

Cr.

1891, Jan. 5. By balance,	$1,800.00	
By special appropriations,	237.59	
Cash receipts, as per Treasurer's report,	6.35	
Transfer to balance,	485.71	$2,529.65

SEWERS—TREMONT STREET No. 2.

Dr.

Pay-Rolls,	$1,237.68	
DeWolf & Vincent,	10.55	
Drake, A. B.,	18.50	
Gifford & Co., T. J.,	6.30	
Greene & Wood,	60.22	
Lowe & Co., J. H.,	3.96	
Sewers, General Account,	284.55	
Street Dep't,	52.83	$1,674.59

Cr.

By special appropriation,	$1,000.00	
Transfer to balance,	674.59	$1,674.59

SEWERS—WARD STREET No. 2.

Dr.

Pay-Rolls,	$254.58	
Drake, A. B.,	6.50	
Gray, C. A.,	22.75	
N. B. Cordage Co.,	5.83	
Sewers, General Account,	64.36	
So. Water St. Sewer No 9,	2.61	
Street Dep't,	57.99	$414.62

Cr.

By special appropriation,	$300.00	
Transfer to balance,	114.62	$414.62

SEWERS—WILLOW STREET.

Dr.

Pay-Roll,	$292.21	
Drake, A. B.,	13.50	
Sewers, General Account,	156.31	
Street Dep't,	26.53	$488.55

Cr.

By special appropriation,	$400.00	
Transfer to balance,	88.55	$488.55

TRUANT SCHOOL.

Dr.

Anthony & Sons,	$6.00	
Bliss & Nye,	2.42	
Davis, G. D.,	74.00	
Donaghy, Thomas,	57.05	
Fay, Julia A.,	467.50	
Grinnell, Edmund,	.06	
Hart & Akin,	5.28	
Knowles & Co.,	5.63	
Mara, Dr. J. C.,	.50	
Poor Dep't,	927.37	
Sherman, W. H.,	4.50	
Smith, Henry,	10.64	
Wing & Co., J. & W. R.,	36.00	
Wood, Brightman & Co.,	5.00	$1,601.95

Cr.

By appropriation,	$1,000.00	
Special appropriations,	601.95	$1,601.95

BALANCE OF PUBLIC PROPERTY.

Dr.

To bonds issued,	$130,000.00	
1892, Jan. 4. To balance,	1,023,786.15	$1,153,786.15

Cr.

1891, Jan. 5. By balance,	$1,007,916.79	
By bonds paid,	50,000.00	
Commissioners of Sinking Funds,	42,669.36	
Increase on valuation,	53,200.00	$1,153,786.15

Cr.

1892, Jan. 4. By balance,	$1,023,786.15

PUBLIC PROPERTY.

(OTHER THAN WATER WORKS.)

Dr.

1891, Jan. 5. To balance,	$1,090,600.00	
To increase in valuation over 1890,	53,200.00	$1,143,800.00

Cr.

1892, Jan. 4. By balance,	$1,143,800.00

Dr.

1892, Jan. 4. To balance,	$1,143,800.00

SINKING FUND COMMISSIONERS.

Dr.

1891, Jan. 5. To balance,	$113,316.79	
To increase in hands of Commissioners over 1890,	42,669.36	$155,986.15

Cr.

1892, Jan. 4. By balance,	$155,986.15

Dr.

1892, Jan. 4. To balance,	$155,986.15

BONDS.

Dr.

To bonds paid,	$50,000.00	
1892, Jan. 4. To balance,	1,376,000.00	$1,426,000.00

Cr.

1891, Jan. 5. By balance,	$1,296,000.00	
By bonds issued,	130,000.00	$1,426,000.00

Cr.

1892, Jan. 5. By balance,	$1,376,000.00

NEW BEDFORD WATER WORKS.

(AS PUBLIC PROPERTY.)

Dr.

1892, Jan. 4. To valuation of works,	$1,200,000.00

BONDS OF THE CITY OF NEW BEDFORD.

TITLES, RATES, AMOUNTS DUE ANNUALLY, AND TOTALS.

	Sewer Bonds, 4s.	Old Bonds.	Water Bonds, 6s.	Water Bonds, 7s.	Bridge Bonds, 6s.	City Imprvt. Bonds, 6s.	Totals.
1892,			$20,000	$10,000		$10,000 C.	$40,000
1893,			20,000			5,000 R.	
		Water 4s.			City Imp	8,000 C.	33,000
1894.		$100,000	20,000		3½s	10,000 R.	130,000
1895.			20,000		$80,000	10,000 R.	110,000
1896,			20,000		25,000	9,000 R.	
				City Imp.		1,000 C.	55,000
1897,			20,000	4s.	35,000	10,000 R.	65,000
1898,			20,000	15,000		9,000 C.	
						1,000 R.	45,000
1899,			20,000	62,000		9,000 C.	
		Water 5s.			Water 7s	1,000 R.	92,000
1900,		20,000		25,000	10,000	10,000 R.	65,000
1901,		20,000		73,000	10,000	10,000 R.	113,000
1902,		20,000			10,000	10,000 R.	40,000
1903,		20,000			10,000	3,000 C.	
						7,000 R.	40,000
1904,		20,000			10,000	10,000 R.	40,000
1905.		Sewer 3½s.	20,000		10,000	10,000 R.	40,000
1906,		60,000	20,000		10,000	10,000 R.	100,000
1907,		15,000	20,000		10,000	10,000 R.	55,000
1908,	$35,000		20,000		10,000	10,000 R.	75,000
1909,	43,000		20,000		10,000	12,000 R.	85,000
1910,	48,000						48,000
1911,	57,000					6,000 R.	
		Water 4s.				22,000 C.	85,000
1918,		20,000					20,000
	Total,						$1,376,000

Amount of Water Bonds, 7s,	$110,000	
" 5s,	100,000	
" 6s,	260,000	
" 4s,	120,000	
Sewer Bonds, 4s,	183,000	
Sewer Bonds, 3½s,	75,000	
City Improvement Bonds, 6s,	213,000	
" " 3½s,	140,000	
" " 4s,	175,000	$1,376,000

INTEREST AS PAYABLE YEARLY.

			Totals.
1892.	On $110,000 Water Bonds, at 7 per cent.,	$7,700	
	100,000 " " 5 "	5,000	
	260,000 " " 6 "	15,600	
	120,000 " " 4 "	4,800	
	213,000 City Improvement Bonds, at 6 per cent.,	12,780	
	140,000 City Improvement Bonds, at 3½ per cent.,	4,900	
	183,000 Sewer Bonds, at 4 per cent.,	7,320	
	75,000 Sewer Bonds, at 3½ "	2,625	
	175,000 City Improvement Bonds, at 4 per cent.,	7,000	$67,725
1893.	On $100,000 Water Bonds, at 7 per cent.,	$7,000	
	100,000 " " 5 "	5,000	
	240,000 " " 6 "	14,400	
	120,000 " " 4 "	4,800	
	203,000 City Improvement Bonds, at 6 per cent.,	12,180	
	140,000 City Improvement Bonds, at 3½ per cent.,	4,900	
	183,000 Sewer Bonds, at 4 per cent.,	7,320	
	75,000 Sewer Bonds, at 3½ "	2,625	
	175,000 City Improvement Bonds, at 4 per cent.,	7,000	$65,225
1894.	On $100,000 Water Bonds, at 7 per cent.,	$7,000	
	100,000 " " 5 "	5,000	
	220,000 " " 6 "	13,200	
	120,000 " " 4 "	4,800	
	190,000 City Improvement Bonds, at 6 per cent.,	11,400	
	140,000 City Improvement Bonds, at 3½ per cent.,	4,900	
	183,000 Sewer Bonds, at 4 per cent.,	7,320	
	75,000 Sewer Bonds, at 3½ "	2,625	
	175,000 City Improvement Bonds, at 4 per cent.,	7,000	$63,245
1895.	On $100,000 Water Bonds, at 7 per cent.,	$7,000	
	100,000 " " 5 "	5,000	
	200,000 " " 6 "	12,000	
	20,000 " " 4 "	800	
	180,000 City Improvement Bonds, at 6 per cent.,	10,800	
	140,000 City Improvement Bonds, at 3½ per cent.,	4,900	
	183,000 Sewer Bonds, at 4 per cent.,	7,320	
	75,000 Sewer Bonds, at 3½ "	2,625	
	175,000 City Improvement Bonds, at 4 per cent.,	7,000	$57,445

THE FOLLOWING TABLE EXHIBITS THE TOTAL AMOUNT OF THE BONDED DEBT OF THE CITY; THE AMOUNT OF BONDS PAYABLE EACH YEAR; THE AMOUNT DUE EACH YEAR FOR INTEREST; AND THE AGGREGATE OF BOTH PRINCIPAL AND INTEREST TO BE PAID IN LIQUIDATION.

Years.	Bonds.	Interest.	Amount.
1892,	$40,000	$67,725	$107,725
1893,	33,000	65,225	98,225
1894,	130,000	63,245	193,245
1895,	110,000	57,445	167,445
1896,	55,000	52,845	107,845
1897,	65,000	50,170	115,170
1898,	45 000	47,145	92,145
1899,	92,000	44,745	136,745
1900,	65,000	40,465	105,465
1901,	113,000	37,165	150,165
1902,	40,000	31,945	71,945
1903,	40,000	29,645	69,645
1904,	40,000	27,345	67,345
1905,	40,000	25,045	65,045
1906,	100,000	22,545	122,545
1907,	55,000	17,945	72,945
1908,	75,000	14,920	89,920
1909,	85,000	11,020	96,020
1910,	48,000	6,680	54,680
1911,	85,000	4,760	89,760
1912,		800	800
1913,		800	800
1914,		800	800
1915,		800	800
1916,		800	800
1917,		800	800
1918,	20,000	400	20,400
	$1,376,000	$723,225	$2,099,225

THE FOLLOWING TABLE SHOWS THE AMOUNT OF TAXES LEVIED IN THIS CITY SINCE 1871, AND THE RATE PER THOUSAND. FOR STATE, COUNTY, AND CITY PURPOSES; ALSO THE NUMBER OF POLLS.

Year.	Valuation of Real Estate.	Valuation of Personal Property.	State Tax.	County Tax.	City Tax.	Overlay.	No. of Polls.	Rate of Tax.
1872,	$10,050,800	$13,742,898.00	$32.280	$18,943.65	$356,000	$13,181.96	5,577	$17.20
1873,	11,125,700	14,114,364.20	36.315	23,679.57	349,000	11,454.46	5,780	16.20
1874,	11,665,400	13,846,904.95	32,280	27,874.24	354,000	11,005.10	5,930	16.20
1875,	11,946,600	14,428,674.00	32,280	28,415.48	383,000	17,136.07	6,226	17.00
1876,	12,411,200	14,339,002.00	26,244	23,859.86	387,000	20,251.49	6,651	16.60
1877,	12,609,200	13,524,097.00	21,870	23,859.86	436,200	17,273.46	6,562	18.60
1878,	12,808,700	13,137,011.20	14,580	25,249.76	371,500	17,259.61	6,729	16.00
1879,	12,898,300	12,874,418.00	7,290	25,666.72	386,000	17,497.36	6,891	16.40
1880,	13,138,400	13,137,519.00	21,870	28,377.03	361,250	15,080.89	7,028	15.70
1881,	13,505,400	13,699,922.00	21,870	26,871.30	437,300	16,084.49	7,025	18.00
1882,	14,138,300	13,974,587.00	29,160	25,689.88	434,200	17,605.64	7,340	17.50
1883,	15,109,300	15,180,305.00	25,770	29,468.95	452,400	16,614.41	7,694	16.80
1884,	15,635,900	15,718,182.00	34,360	26,668.72	462 700	13,031.04	8,141	16.60
1885,	16,293,800	15,104,090.00	25,770	27,735.50	457,950	17,028.11	8,349	16.30
1886,	16,778,900	15,416,695.50	27,015	33,883.77	456,300	15,328.18	8,699	16.00
1887,	17,372,600	15,309,658.00	40,522½	38,485.28	489,700	18,075.50	9,056	17.40
1888,	18,023,700	15,430,647.00	40,522½	41,274.10	486,411	19,364.29	9,424	17.00
1889,	18,928,800	15,718,866.00	34,700	51,476.17	508,600	17,642 91	9,972	17.10
1890,	20,041,700	16,829,154.00	30.362½	50,632.30	519,300	22,120.12	10,710	16.30
1891,	20,959,300	14,979,600.00	26,025	47,819.40	550,200	26,134.37	11,160	16.30

Average tax rate for 20 years, $16.76.

AUDITOR'S TRIAL BALANCE, JAN. 4, 1892.

Dr.

N. B. Water Works, as public property,	$1,200,000.00	
Public Property (other than Water Works),	1,143,800.00	
Sinking Fund Commissioners,	155,986.15	
Appropriations, General, 1891,	17,673.46	
" " 1890,	19,904.24	
" " 1889,	15,756.80	
" " 1888,	2,415.78	
" Special, 1891,	160,871.10	
Com. of Mass., Chapter 279,	2,408.97	
" " 301,	5,777.55	
Court Judgments,	2,128.47	
Public Debt,	3,889.59	
Real Estate Tax Account,	322.75	
City Treasurer, balance of cash,	15,112.12	$2,746,046.98

Cr.

Trust Funds,	$115,100.00	
Bonds,	1,376,000.00	
Balance of Public Property,	1,023,786.15	
Cemeteries,	226.34	
Cemetery Funds,	16,664.93	
Engineering Dep't,	250.64	
Engine House No. 5,	3,500.00	
Free Public Library, Trustees,	4,574.01	
" " Dog Fund,	665.65	
N. B. and Fairhaven Bridge,	2,634.67	
N. B. School Committee, Howland Fund,	1,780.36	
" " " Jona. Bourne Prize Fund,	30.00	
N. B. Water Works,	44,962.90	
Public Schools, Repairs of Buildings,	2,400.00	
" " Dog Fund,	3,351.37	
Public Works, Permanent Improvements,	4,750.07	
Repairs City Property,	875.00	
Sewers, Emerson Street,	574.89	
" Grape St. Sewer Extension,	1,372.35	
" Shawmut Avenue No. 3,	47.65	
Temporary Loan,	142,500.00	$2,746,046.98

New Bedford, Dec. 1, 1891.

This is to certify that I have examined the accounts of the City Auditor for the year 1891, and present the above report of the same.

GEORGE W. PARKER.

Bristol ss. December 1st, 1892.

Then personally appeared the above-named George W. Parker, and made oath that the foregoing statement is true, to the best of his knowledge and belief.

Before me,
DANIEL B. LEONARD,
Justice of the Peace.

ANNUAL REPORT

— OF THE —

COLLECTOR OF TAXES

— FOR —

The Year Ending January 4, 1892.

In Board of Aldermen,
February 11, 1892.

Received, ordered printed in the City Documents, and sent down for concurrence.

D. B. LEONARD,
City Clerk.

In Common Council,
2d mo. 11, 1892.

Concurred.

WM. A. MACKIE,
Clerk.

Statement of the Collector of Taxes.

1891.

City of New Bedford,
Collector's Office,
January 4, 1892.

To the City Council:

Gentlemen,—I herewith respectfully present to you my account as Collector of Taxes, embracing a statement in full of the various transactions in this department for the financial year ending at this date.

COLLECTOR'S STATEMENT FROM 1886 TO 1890 INCLUSIVE.

Financial Year.	Unpaid Jan. 6, 1890.	Paid and Remitted.	Unpaid Jan. 5, 1891.
1886,	$5,465.49		$5,465.49
1887,	7,754.49	$5.00	7,749.49
1888,	7,461.13	33.20	7,427.93
1889,	12,662.93	4,049.38	8,613.55
1890,	19,242.61	8,008.91	11,233.70
	$52,586.65	$12,096.49	$40,490.16

COLLECTOR'S STATEMENT.

TAXES, 1891.

CHARGES.

Amount of tax bills,		$650,178.77
State tax,	$26,025.00	
County tax,	47,819.40	
City tax,	550,200.00	
Overlay,	26,134.37	$650,178.77

PAYMENTS.

State tax,	$26,025.00	
County tax,	47,819.40	
City Treasurer,	522,526.54	
Discount,	31,247.69	
Abatements by Assessors,	562.35	
Balance unpaid,	21,997.79	$650,178.77

The balance of taxes of 1891 — $21,997.79, is but $3\frac{38}{100}$ per cent. of the whole assessment.

Our portion of the State tax of 1891 was $26,025 and the County tax for the same year $47,819.40, or a total of $73,844.40. Though $7,150.40 less than the year previous, it added to our tax rate nearly $2 per one thousand dollars, or about one-eighth of the whole assessment.

The receipts from the Commonwealth of Massachusetts for corporation and other taxes were as follows, viz. :

Corporation tax,	$65,470.65
National bank tax,	3,078.61
Tax on ships in foreign trade,	1,436.45
	$69,985.71

By an order of the City Council passed early in the year, $20,000 of the sum last stated was placed to the credit of general appropriations of 1891, $10,000 applied to the discount on taxes paid on or before October 15th, 1891, and the balance disposed of in the usual manner, as shown by the Treasurer's statement which follows.

The collections, as usual, were satisfactory, though not quite up to former years; 95 per cent. of the taxes of 1891 were collected under the usual discount between September 15th and October 15th inclusive, — one-half of one per cent. only less than the former year.

Respectfully submitted,

JAMES H. HATHAWAY,

Collector of Taxes.

ANNUAL REPORT

— OF THE —

CITY TREASURER,

For the Year Ending January 4, 1892.

In Board of Aldermen,
February 11, 1892.

Received, ordered printed in the City Documents, and sent down for concurrence.

D. B. LEONARD,
City Clerk.

In Common Council,
2d mo. 11, 1892.

Concurred.

WM. A. MACKIE,
Clerk.

Statement of the City Treasurer,

JANUARY 4, 1892.

CITY OF NEW BEDFORD,
TREASURER'S OFFICE, January 4, 1892.

To the City Council:

GENTLEMEN, — I herewith present to you, as required by the ordinances of the city, my account as City Treasurer for the financial year ending at this date.

Very Respectfully,
JAMES H. HATHAWAY,
City Treasurer.

PAYMENTS INTO THE TREASURY.

The balance in the treasury at the close of the last financial year and the receipts during the year ending at this date, are set forth in the statements that follow, viz. :

Balance, January 5, 1891,		$26,078.73

RECEIPTS FROM COLLECTOR OF TAXES.

1887,	$5.00	
1888,	33.20	
1889,	4,049.38	
1890,	8,008.88	
1891,	522,526.54	$534,623.00

APPROPRIATIONS, GENERAL, 1888.

Amount received from State Treasurer:		
Bank tax, banks out of the city,	$3,078.61	
Gain of bank tax,	131.58	
Tax on ships in foreign trade,	1,436.45	$4,646.64

APPROPRIATIONS, GENERAL, 1889.

Amount received from State Treasurer:		
Part of corporation tax of 1889,		$5,355.89

APPROPRIATIONS, GENERAL, 1891.

Amount received from State Treasurer:		
Part of corporation tax, 1891,	$20,000.00	
Part of same for abatement,	10,000.00	$30,000.00

APPROPRIATIONS, SPECIAL, 1890.

From Improvement Bonds issued,	$73,000.00	
From Sewer Bonds issued,	57,000.00	$130,000.00

CEMETERIES.

Received from sale of lots and other sources:		
Oak Grove Cemetery,	$1,660.00	
Pine Grove Cemetery,	12.00	
Rural Cemetery,	1,510.00	
Highways and Streets,	77.65	
R. S. Lawton, amount returned,	15.52	$3,275.17

CEMETERY FUNDS.

Amount received from sundry parties for the permanent care of lots:	
B. C. Blossom, Oak Grove,	$100.00
John Briggs, Rural,	100.00
J. A. Burroughs, Rural,	100.00
R. E. Burroughs, Oak Grove,	50.00
James B. Congdon, Rural,	300.00
A. C. Cushman, Oak Grove,	100.00
James Durfee, Rural,	100.00
W. P. Field, Rural,	100.00
Isaac Freeman et al., Oak Grove,	50.00
A. & H. A. Harrington, Oak Grove,	100.00
B. F. Hathaway, Oak Grove,	100.00
M. K. Howard, Rural,	100.00
W. A. Hussey, Rural,	100.00
Smith Jenney, Oak Grove,	125.00
A. C. King, Rural,	50.00
John Macomber, Oak Grove,	75.00
E. W. Montague, Rural,	25.00
Ann Moore, Rural,	50.00
B. T. Ricketson, Rural,	100.00
Elihu Russell, Oak Grove,	100.00

J. A. Sawyer, Oak Grove,	100.00	
F. P. Seabury, Oak Grove,	100.00	
D. R. Spaulding, Oak Grove,	100.00	
John H. Taber, Oak Grove,	75.00	
Sally B. Tripp, Rural,	100.00	
A. M. Weeks, Rural,	50.00	
Henry T. Wilcox, Rural,	100.00	$2,550.00

COMMONWEALTH OF MASSACHUSETTS.

MILITARY AID UNDER CHAPTER 301, LAW OF 1889.

Received from State Treasurer:

Advances of 1890,	$5,130.50

COMMONWEALTH OF MASSACHUSETTS.

MILITARY AID UNDER CHAPTER 279, LAWS OF 1889.

Received from State Treasurer:

One-half of the disbursements for 1890,	$3,138.88

ENGINEERING DEPARTMENT.

Amounts received from sundry sources:

A. B. Drake, labor, etc.,	$69.22	
Geo. H. Nye, drawing material,	8.23	
Sundry departments,	678.45	$755.90

FIRE DEPARTMENT.

Amounts received from sundry sources:

Seth Alden, sale of horse,	$50.00	
Charles O. Brightman, pumping,	29.00	
C. W. Cushing, twice audited,	4.00	
Fairhaven, coal,	8.40	
Fall River, harness,	6.00	
John A. Gomley, sale of 2 horses,	125.00	
New Bedford Copper Co., copper,	69.96	
Taunton, 2 harnesses,	12.00	
Police Department,	544.58	
Police Signal,	225.00	
Poor Department,	296.39	$1,370.33

FREE PUBLIC LIBRARY—DOG FUND.

One-half of the receipts from the County of Bristol for dog licenses,	$1,291.91

FREE PUBLIC LIBRARY—TRUSTEES' ACCOUNT.

Income from sundry bequests, gifts, etc.:		
Sylvia Ann Howland, bequest,	$3,000.00	
George Howland, Jr., gift,	96.00	
Charles W. Morgan, bequest,	60.00	
Oliver Crocker, bequest,	60.00	
James B. Congdon, gift,	30.00	
George O. Crocker, bequest,	400.00	
Returned, twice audited,	3.00	$3,649.00

HIGHWAYS AND STREETS.

The receipts from sundry sources were as follows:	
Charles O. Brightman, labor, etc.,	$64.11
George E. Briggs, curbing,	10.80
Brownell & Murkland, paving,	200.22
John S. Cook, level snow,	19.00
L. Cooper, labor on drain,	93.73
Benjamin Dawson, concrete,	45.91
C. H. L. Delano, steel tape,	12.25
Denison Bros., paving,	244.31
C. F. Donneau, concrete,	16.88
Albert B. Drake, Superintendent, fees,	90.90
Albert B. Drake, concrete,	14.13
Deborah B. Dyer, rent land,	36.00
Garfield & Proctor, paving,	127.86
Charles A. Gray, casting,	17.00
Edmund Grinnell, paving,	157.33
F. R. Hadley, one-half cost Collins St. Sewer,	107.36
John Hastings, repairing flagging,	75.35
Lewis' Block, " "	56.00
S. C. Lowe, stock and labor,	68.67
D. H. Morrisey, horse,	20.00
New Bedford Gas and Edison Light Co., repairs,	100.91
Odd Fellows Building, stock and labor,	161.74
C. S. Paisler, stock,	9.00
J. A. Payan, concrete,	55.11
Potomska Mills, screenings,	323.87
Ricketson Block, one-half cost of flagging,	36.81
Rodman's Wharf, paving,	127.04
A. K. P. Sawin, sale of horses,	100.00
J. L. & W. B. Sherman, blasting,	179.47
Eliza Skiff, sale of horse,	35.00
Robert A. Taber, flagging,	47.33
Wm. C. Taber, drain,	415.25

John C. Taylor, dirt, stone, etc.,	31.58	
A. W. Tinkham, drain,	17.60	
Trinitarian Church, concreting,	90.21	
Union Street Railway, paving,	1,020.94	
United States Post Office, fence,	22.00	
S. J. Weston, doctor's bill,	11.00	
William Street Baptist Church, stock, etc.,	18.74	
Henry Wilson, carting dirt,	54.12	
Sundry departments, sewers, etc.,	29,989.35	
Sundry parties, trimming trees, dirt, stone, etc.,	1,603.86	$35,928.74

INCIDENTALS.

C. W. Coggeshall, twice audited,	$7.71	
C. S. Kelley, sale material,	1.00	
Sundry persons, care cemetery lots,	39.00	$47.71

NEW BEDFORD AND FAIRHAVEN BRIDGE.

Sewers, General Account,	$8.41	
Street Department,	29.40	$37.81

NEW BEDFORD SCHOOL COMMITTEE.

Income from trust funds, etc.:		
Sylvia Ann Howland, bequest,	$3,000.00	
School Herald, twice audited,	11.75	$3,011.75

NEW BEDFORD SCHOOL COMMITTEE—JONATHAN BOURNE PRIZE FUND.

Income from fund to Jan. 1, 1892,	$90.00

NEW BEDFORD WATER WORKS.

Receipts from sundry sources, as follows:		
From taxes, rates,	$66,132.67	
For services and mains,	10,875.56	
For fines,	72.00	
For meters sold,	74.00	
From Cemeteries,	784.91	
From Employers Assurance,	232.25	
Sale of hay,	64.50	
Supplies,	3.65	$78,239.54

PARKS AND SQUARES.

Christopher C. Taber, labor,	$27.00

POLICE DEPARTMENT.

Received from County of Bristol and from other sources, as follows:	$3,223.44	
Officers' fees, fines, etc.,	300.00	
Dr. A. M. Peirce, twice audited,	9.00	$3,532.44

POOR DEPARTMENT.

The receipts were as follows:

CITIES AND TOWNS.	
Acushnet,	$6.00
Attleboro,	142.25
Boston,	53.80
Bridgewater,	5.00
Brockton,	23.00
Brookline,	68.85
Cambridge,	24.25
Canton,	38.00
Dartmouth,	458.00
Duxbury,	15.00
Easton,	38.00
Edgartown,	11.00
Fairhaven,	156.00
Fall River,	297.00
Falmouth,	38.50
Fitchburg,	17.50
Gay Head,	46.28
Harwich,	1.50
Lawrence,	67.75
Lowell,	11.88
Ludlow,	112.00
Mansfield,	77.53
Marlboro,	26.25
Mattapoisett,	63.00
Middleboro,	69.00
Nantucket,	72.50
Orleans,	63.00
Palmer,	15.00
Pittsfield,	76.25
Plymouth,	85.50
Rochester,	75.60
Salem,	78.00
Southbridge,	82.50
Springfield,	10.00

Taunton,	102.50		
Tisbury,	8.00		
Waltham,	90.28		
Ware,	50.00		
Wareham,	60.32		
Wellfleet,	108.00		
Westport,	64.00		
Whitman,	188.95	$3,097.74	
From State, support, burials, etc.,		3,259.52	
Almshouse, city:			
Farm produce,	$119.55		
Fire Department, hay,	1,123.85		
Hannah Harrington, board,	195.00		
H. Kennidy, board,	84.00		
Military Aid, for board,	403.00		
Police Department, hay,	91.25		
Susan Snow, amount returned,	4.00		
Truant School,	927.37		
H. G. Wheaton, board,	7.89	$2,955.91	
Received for support at hospitals, and from other sources:			
A. M. Andrews,	$136.18		
P. F. Black,	5.11		
W. K. Christian,	10.00		
Mary Hollaud,	10.00		
Hugh McHugh,	144.00		
Joseph Mellen,	25.00		
James Mercer, wife,	101.00		
North Rutland, Vt., support,	8.50		
H. Parker, sale of effects,	24.10		
Port Society, transportation,	10.00		
B. R. Watson,	212.17		
Isaiah Wood, son.	126.75	$812.81	$10,125.98

PUBLIC DEBT.

New Bedford Water Works, rates,	$25,000.00

PUBLIC WORKS—PERMANENT IMPROVEMENT.

From Sewers, General Account,	$108.30

PUBLIC SCHOOLS—DOG FUNDS.

County of Bristol, one-half of the dog licenses,	$1,291.91

PUBLIC SCHOOLS—INCIDENTALS.

Bell Ringers, returned,	$ .80

PRINTING, BINDING AND STATIONARY.

Journal Publishing Co., returned,	$43.13

REAL ESTATE TAX ACCOUNT.

Adelade Wood, tax 1888,	$40.00

SEWER—BOWDITCH STREET.

Sundry departments,	$2.88

SEWER—BULLOCK STBEET.

Sundry departments,	$10.47

SEWER—COUNTY STREET No. 5.

Sewer, County Street No. 4,	$1.63

SEWERS—GENERAL ACCOUNT.

From sundry departments,	$11,992.14	
C. L. Faunce, drain and labor,	65.76	
C. S. Paisler, pipe,	24.15	
Wm. C. Taber, drain and labor,	82.73	
Daniel Sweeney, pipe,	6.00	$12,170.78

SEWER—GRAPE STREET EXTENSION.

Sundry departments,	$249.46

SEWER—HILLMAN STREET, TRIPP'S BROOK.

Sundry departments,	$65.55

SEWER—ROCK STREET.

Street department,	$2.45

SEWER—SAWYER STTEET.

Wm. W. Sherman, returned,	$3.50	
George Spencer, sale of barrels,	3.50	
Sundry departments,	1,658.87	$1,665.87

SEWER—SOUTH WATER STREET No. 9.

Sewer, Ward Street No. 2,	$2.61

SEWER—SYCAMORE STREET No. 2.

Sewer, Bowditch Street,	$6.35

TEMPORARY LOAN.

From notes issued by order of the City Council,	$597,500.00

UNAPPROPRIATED FUNDS.

The receipts were as follows:

Interest, — Deposits,		$2,331.61	
	Premium on bonds,	4,081.95	
	Premium on notes,	16.25	
	Taxes,	866.92	$7,296.73
Licenses and fees, — Circus, etc.,		$135.00	
	Liquor,	33,629.25	
	Milk,	164.65	
	Pigs,	64.00	
	Petroleum, etc.,	816.00	
	Sealers,	84.35	$34,893.25
Rents, — Armory,		$400.00	
City Hall,		650.00	$1,050.00
Sundry sources, — Corp. taxes, '91,		$35,470.65	
	Fines, etc.,	8.00	
	Gamewell Co.,	2.50	
	Permits to enter sewers,	990.00	
	Sale of buildings,	291.50	
	Trim trees, etc.,	66.27	
	Tuition non-resident pupils,	952.44	$37,781.36

Amount received for sewer taxes:

Acushnet Avenue,	$55.20
Arnold and County Streets,	750.75
Cedar Grove Street,	559.40
Clinton Street,	89.36
Fifth Street,	831.36
Fourth Street,	403.18
Fruit Street,	850.31
Hall Street,	36.23
Hickory and Ward Streets,	42.81
Howard Street,	118.81
James Street,	135.38
Liberty Street,	118.92
Locust Street,	16.91
Maxfield Street,	36.99
North Front Street,	205.30
Pope Street,	113.03

Prospect Street,	153.41		
Richmond Street,	3.53		
Rivet Street,	549.94		
Shawmut Avenue,	18.13		
Sherman Street,	94.35		
Smith and Walden Streets,	481.63		
South Front Street,	200.61		
South Second Street,	53.49		
Union Street,	36.01		
Washington Street,	153.22	$6,108.26	$87,129.60

REPAIRS TO SCHOOL-HOUSES.

Sundry accounts,	$16.23
Total receipts to Jan. 4, 1892,	$1,608,184.94

PAYMENTS.

The payments upon the warrants of the Mayor were as follows:

Board of Health,		$2,529.53
W. H. Cadwell, Huntingdon, Pa.,		2,847.26
Cemeteries,		6,963.92
Com. of Mass., chapter 279,	$5,098.95	
Com. of Mass., chapter 298,	1,487.00	
Com. of Mass., chapter 301,	5,937.50	12,523.45
Court judgments,		609.14
Division St. School House and Lot,		16,482.65
Engineering Department,		8,505.26
Fire Department,		50,397.15
Free Public Library,	$5,720.44	
Free Public Library, — Trustees,	4,833.93	
Dog Fund,	1,257.16	11,811.53
Highways and Streets,		145,845.75
Incidentals,		26,512.71
Kempton Street School House and Lot,		8,582.08
Lighting the Streets,		30,175.20
New Bedford and Fairhaven Bridge,		7,403.14
New Bedford School Committee, — Howland Fund,		3,125.78
Jona. Bourne Prize Fund,		60.00
New Bedford Water Works,		86,990.33
Parks and Squares,		857.77
Police Department,		70,232.54
Police Telegraph Signal System,		15,462.74
Poor Department,		39,520.80
Printing, Binding and Stationery,		9,077.92

Public Debt, — Principal,	$50,000.00	
Interest,	80,910.59	
Interest, trust funds,	6,610.00	
Sinking Funds,	35,920.00	$173,440.59
Public Schools, — Dog Fund,	$579.78	
Incidentals,	34,688.40	
Teachers,	86,142.76	
Repairs of buildings,	6,995.16	$128,406.10
Public Works, — Permanent Improvement,		7,358.23
Repairs of City Property,		2,980.07
Salaries,		15,581.17
Sewers, — General Account.	$42,568.92	
Babbitt Street,	1,531.21	
Bowditch Street No. 3,	1,901.28	
Bullock Street,	534.52	
Campbell Street, relaying,	1,224.92	
County Street No. 4,	246.79	
County Street No. 5,	1,158.20	
County Street No. 6,	681.32	
Emerson Street,	325.11	
Grape Street Extension,	1,816.21	
Hillman Street No. 3,	2,359.66	
Hillman Street, Tripp's Brook,	1,931.81	
Hyacinth Street,	202.65	
Juniper and Larch Streets,	4,833.23	
Margin Street,	1,460.56	
Marvin Street,	651.41	
Mill Street No. 4,	1,485.91	
Purchase Street No. 5,	955.15	
Rock Street,	477.37	
Sawyer Street,	51,956.50	
Sears Street,	613.07	
Shawmut Avenue No. 3,	1,952.35	
Smith and Walden Streets,	56.04	
South Water Street No. 9,	1,156.46	
Sycamore Street No. 2,	2,529.65	
Tremont Street No. 2,	1,674.59	
Ward Street No. 2,	414.62	
Willow Street,	488.55	$127,188.06
Temporary Loan,		580,000.00
Truant School,		1,601.95
		$1,593,072.82
Balance, cash in treasury, Jan. 4, 1892,		15,112.12
		$1,608,184.94

ANNUAL REPORT

— OF THE —

SINKING FUND COMMISSIONERS,

FOR THE YEAR 1891.

In Board of Aldermen,
January 28, 1892.

Received, ordered printed in the City Documents, and sent down for concurrence.

D. B. LEONARD,
City Clerk.

In Common Council,
1st mo. 28, 1892.

Concurred.

WM. A. MACKIE,
Clerk.

REPORT OF THE TREASURER OF SINKING FUNDS.

CITY OF NEW BEDFORD,
TREASURER'S OFFICE,
January 4, 1892.

To the Commissioners of Sinking Funds of the City of New Bedford:

GENTLEMEN, — I herewith respectfully submit the annual statement of my account as Treasurer for the year just closed.

The appropriations by the City Council in 1891 for the Sinking Funds amounted to $35,920, the sum received from water rates for water debt, $600, — $8,120 in excess of 1890, namely: $2,280 for $57,000 of Sewer Bonds issued April 1, 1891, and $5,840 for Improvement Bonds issued at same date.

At this time the funds are all deposited in the National Bank of Commerce, at 4½ per cent. per annum, the interest being credited monthly, this contract to cease on the 1st of April next.

Amount of Sinking Funds, January 1, 1891, $113,316.79

APPROPRIATIONS BY THE CITY COUNCIL.

For $80,000	Bonds,	April 1,	1885,	$6,500.00
25,000	"	"	1886,	2,300.00
30,000	"	"	"	1,200.00
30,000	"	Oct. 1,	1886,	1,200.00
15,000	"	April 1,	1887,	600.00
35,000	"	"	"	2,800.00
35,000	"	"	1888,	1,400.00
15,000	"	"	"	1,200.00
43,000	"	"	1889,	1,720.00
62,000	"	"	"	4,960.00
48,000	"	"	1890,	1,920.00
25,000	"	"	"	2,000.00
57,000	"	"	1891,	2,280.00
73,000	"	"	"	5,840.00
				$35,920.00

From water rates:		
$20,000 Water Bonds, April 1, 1888,	$600.00	$36,520.00
Interest to date on investment,		6,149.36
Sinking Funds, Jan. 1, 1892,		$155,986.15

INVESTMENTS FOR THE YEAR.

Deposits at Citizens National Bank to April 1, 1891,	$113,316.79
Interest to April 1, 1891,	1,191 25
Deposits, National Bank of Commerce,	36,520.00
Interest from " "	4,958.11
Total deposit at this date,	$155,986.15

AMOUNT OF SINKING FUNDS IN EACH CLASS.

Sinking Fund 1,	$53,445.22
" " 2,	15,905.64
" " 3,	8,298.09
" " 4,	6,775.01
" " 5,	3,397.63
" " 6,	15,808.00
" " 7,	5,298.32
" " 8,	6,181.41
" " 9,	2,645.50
" " 10,	5,560.31
" " 11,	16,052.95
" " 12,	4,049.86
" " 13,	4,218.74
" " 14,	2,344.43
" " 15,	6,005.04
Total, January 1, 1892,	$155,986.15

Respectfully submitted,

JAMES H. HATHAWAY,

Treasurer.

REPORT

— OF THE —

COMMISSIONERS OF SINKING FUNDS.

NEW BEDFORD, January 23, 1892.

At a meeting of the Commissioners of Sinking Funds of the City of New Bedford, held this day, it was

Voted, To adopt the foregoing statement of the Treasurer as the Report of the Commissioners of the Sinking Funds of the City of New Bedford, required by the Statutes of Massachusetts to be made annually to the City Council.

MORGAN ROTCH,
J. AUGUSTUS BROWNELL,
Commissioners.

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1892—CITY DOCUMENT No. 9.

ANNUAL REPORT

OF THE

CHIEF OF POLICE

OF THE

City of New Bedford,

TO THE

CITY COUNCIL,

FOR THE

Year ending December 31, 1891.

NEW BEDFORD:
E. ANTHONY & SONS, Incorp., CITY PRINTERS.
1892.

In Board of Aldermen,
January 28th, 1892.

Received, ordered printed in the City Documents, and sent down for concurrence.

D. B. LEONARD,
City Clerk.

In Common Council,
January 28, 1892.

Concurred.

WM. A. MACKIE,
Clerk.

REPORT.

NEW BEDFORD, DECEMBER 31st, 1891.

To His Honor the Mayor and Gentlemen of the City Council:

I have the honor to herewith submit my third annual Report, showing the condition of the department and a synopsis of the work performed during the past year.

The force as now organized consists of one chief, two captains, seven lieutenants, two inspectors, forty-two patrolmen, two wagon-men, three day housekeepers and one night housekeeper.

Fifteen hundred and fifty-nine (1559) arrests have been made during the year, classified as follows (on warrants 288):

Assault and battery,	132	Disturbing religious assembly,	2
Assault with a weapon,	1	Discriminating in regard to Color,	2
Assault on an officer,	4	Embezzlement,	12
Assault, indecent,	3	Escaped convicts,	1
Attempt to break and enter,	1	Evading board bill,	2
Abortion,	1	Forgery,	1
Accessory to Abortion,	2	Indecent exposure,	1
Accessory to malicious mischief,	1	Illegal sale of liquor,	1
Bastardy,	7	Idle and disorderly,	9
Breaking and entering,	1	Insane,	36
Breaking and entering and larceny,	7	Keeping common nuisance,	6
Bail-bond,	2	Keeping liquor nuisance,	7
Cruelty to dumb animals,	5	Keeping liquor with intent to sell,	6
Carrying dangerous weapons,	1	Keeping noisy and disorderly house,	10
Contempt of court,	13	Larceny,	48
Disturbing the peace,	136	Larceny, felonious,	15
Drunkenness,	1007		

Malicious mischief,	10	Threatening bodily harm,	3
Murder,	1	Tramps,	3
Non-support,	18	Vagrants,	7
Obstructing an officer,	2	Violation itinerant vender law,	2
Obtaining goods under false pretences,	2	Violation City Ordinances,	1
Receiving stolen goods,	1	Violation Lord's Day,	1
Selling adulterated food,	6	Violation labor law,	1
Stubborn children,	16	Violation oleomargarine law,	2

NATIVITY OF PRISONERS.

United States,	738	Italy,	3
British Provinces,	8	Norway,	10
Canada,	144	Portugal,	49
Central America,	1	Russia,	1
England,	214	Scotland,	31
Finland,	1	Spain,	2
Germany,	16	Sweden,	3
Ireland,	335	West Indies,	3

Of the persons arrested, 1323 were males, 236 were females, 333 were non-residents, and 116 were minors; 609 were committed to penal institutions, 36 to insane asylums; 59 appealed from sentence, 29 were found not guilty and discharged, 22 were nolle prossed, 8 were delivered to out of town officers, 3 were delivered to the Superior Court, 182 were released from the lockup, 80 had their cases continued on probation, 437 paid fines and there are 94 cases now pending.

MISCELLANEOUS BUSINESS.

Amount of property reported stolen in the city,	$3,929.38	Dangerous dogs reported,	18
Amount of property reported recovered,	$1,773.08	Disturbances suppressed,	121
Buildings found opened and secured,	73	Dog notices served,	17
Cases investigated,	2,094	Dogs killed,	28
Defective streets and sidewalks,	189	Fire alarms given,	9
Defective hydrants reported,	3	Fires extinguished without alarm,	9
Defective water-pipes reported,	2	Horses found cast,	14
Dangerous chimneys reported,	1	Intoxicated persons helped home,	2
		Lost children found and restored,	117

Stray teams put up,	6	Street obstructions reported,	2
Sick and injured persons assisted,	9	Water reported running to waste,	20

LODGERS.

Eleven hundred and forty-six (1146) persons have been furnished with lodgings during the year, of whom 1143 were males and 3 were females; 585 were Americans, 561 were foreigners; 1146 were non-residents; 51 were minors.

NATIVITY OF LODGERS.

United States,	585	Ireland,	278
British Provinces,	8	Norway,	2
Canada,	27	Scotland,	29
England,	202	Sweden,	2
France,	5	Portugal,	3
Germany,	5		

STATION HOUSES.

I would renew my recommendation of last year that the South police station be removed to Gifford street, on South Water street, or to some adjacent locality; also, that said station be shingled; also, that the recommendation of the past several years in relation to the heating of the Weld street station should this year be considered.

The Willis street station has been abandoned owing to the introduction of the Police Signal system.

THE FORCE.

There have been a few changes in the formation of the force. A new lieutenancy has been created and two patrolmen have been detailed to act as "wagon-men." Vacancies have occurred as follows: John J. McAuliffe was discharged February 4, 1891 for violation of Rule 31, Police Regulations; Thomas D. Howland was discharged May 12, 1891 for drunkenness and violation of Rule 20,

Police Regulations; Thomas W. Comstock was promoted to lieutenant July 23, 1891. These vacancies were filled by the appointment of Charles C. Gifford, February 7, 1891, Daniel P. Sweeney, March 25, 1891, and Jeremiah M. Taber, June 15, 1891.

Patrolmen James Dowden and John M. Jones have been detailed as wagon-men.

With the exception of the two men discharged, the duties of the force have been satisfactorily performed.

INSPECTORS.

The inspectors having performed their at times arduous duties, responding at night as well as in the day, it is with pleasure I recommend that their pay be increased to that, at least, of a lieutenant.

SIGNAL SYSTEM.

The Gamewell Signal System, which was accepted and put into commission April 17, 1891, has done what I claimed could be done by some such system in my annual report of December 31, 1889. It has worked as perfectly as any system now in operation could work, and I cannot praise the system too highly. Daily records of the various calls have been kept since June 8th, and the following will show to what extent the system has been used:

Duty calls registered and recorded from 7.30 a. m., June 8th, 1891, to 7.30 a. m., December 31st, 1891	108,091
Telephone calls during same time	7,531
Wagon-calls " " "	503
Total calls registered and recorded	116,125

MORALE OF THE CITY.

There has been a slight decrease in the number of arrests from last year, and the city has enjoyed its usual freedom from the heavier crimes. One murder has been committed in the neighboring town of Fairhaven, that of

Peter E. Johnson, June 8, 1891. The arrest of the alleged murderer, Charles J. Tighe of Boston, was made through information from this department at Taunton, and this department "worked-up" the case and, although the case was one extremely peculiar in its details, Tighe was convicted of manslaughter and is now serving a seven years' sentence for the same in our State's prison.

There has been one arrest for criminal abortion, which resulted in the death of the person operated upon. The party arrested with two accomplices were bound over to the Superior Court and the cases are still pending in said court.

In conclusion, I desire to once more thank His Honor the Mayor, Committee on Police, Hon. H. M. Knowlton, District Attorney, Thomas F. Desmond, Esq., City Solicitor, His Honor the Judge, and the Clerk of the Third District Court, from all of whom I have received counsel and assistance, and to the officers and members of the Police Department for cheerfulness in the performance of their duties.

Very respectfully your obedient servant,

DANIEL A. BUTLER,

Chief of Police.

1892—CITY DOCUMENT No. 10.

THIRD ANNUAL REPORT

OF THE

BOARD OF PUBLIC WORKS

OF THE

CITY OF NEW BEDFORD,

TO THE

City Council,

TOGETHER WITH THE

Superintendent's Report to the Board,

FOR THE YEAR 1891.

NEW BEDFORD:
E. ANTHONY & SONS, Incorp., CITY PRINTERS.
1892.

BOARD OF PUBLIC WORKS.

Organized May 3d, 1889, under Chapter 167 of the Acts and Resolves of 1889.

ORGANIZATION FOR 1891.

CHARLES S. ASHLEY, Mayor, Chairman.

JOSEPH DAWSON, President of the Common Council.

MORGAN ROTCH, appointed April 11th, 1889; term expires May, 1892.

EDMUND WOOD, appointed April 11th, 1889; term expires May, 1891; resigned May 28th, 1891.

THOMAS B. TRIPP, appointed October 9th, 1890; term expires May, 1893.

GEORGE F. BARTLETT, appointed July 13th, 1891; term expires May, 1894.

CLERK.

DANIEL B. LEONARD, City Clerk.

SUPERINTENDENT OF PUBLIC WORKS.

ALBERT B. DRAKE.

REPORT.

City of New Bedford,
Office Board of Public Works,
Odd Fellows Building, December 31st, 1891.

To the City Council of the City of New Bedford:

Gentlemen, — The Board of Public Works herewith submit their third annual Report for the year ending December 31st, 1891.

At the first meeting of the year 1891, the Board organized with Hon. Charles S. Ashley, Mayor, Chairman; Joseph Dawson, President of the Common Council, Morgan Rotch, Edmund Wood, and Thomas B. Tripp.

On the 4th day of May the Board organized for the ensuing year with the above members. Daniel B. Leonard, City Clerk, continued by the provisions of the Act constituting the Board to act as Clerk. Albert B. Drake was re-elected Superintendent of Public Works.

On May 28th, 1891, Edmund Wood resigned as a member of the Board. We record here an expression by his fellow-members of their appreciation of his faithful attention to the duties of the office, and the careful and impartial judgment of the numerous and vexatious problems presented in the work of the department, from its early formation.

George F. Bartlett was appointed and confirmed as a member of the Board, and qualified July 13th.

The authority of the Board with relation to the location of poles in the streets, and the granting of franchises for

street railroads, which by an opinion of the City Solicitor of 1890 was transferred to the Mayor and Aldermen, was again transferred to this Board in July, under an opinion of the present City Solicitor.

A stone-crusher with greater capacity, to be located at the City Yard, is an undoubted necessity; but from the experience of the Board in the past, the capacity of the present crusher will be equal to the appropriation, unless a much larger one than usual should be made.

The suggestion of the Superintendent with relation to the substituting of granite blocks for cobble paving on all streets subjected to heavy teaming, deserves consideration. The constant tearing up of our main streets to repair cobble paving is fast becoming a nuisance to the travelling public While the Board fully realizes the need of the improvement, the question of cost must also be considered. The time is near at hand when in the judgment of this Board a radical change must be made in paving, and cobbles abandoned except in streets subject to light travel.

The construction of the wall at Clark's Cove has progressed to a point west of Crapo street. This work will be continued the coming summer.

During the past year the streets have been cleaned more systematically and thoroughly than ever before, and it is the judgment of the Board that this work should be continued.

The need of enlarged quarters at the City Stable for the carpenter, blacksmith, machine-shop and tool-house, becomes more apparent, and must soon be met.

The continued efficiency of the blacksmith, repair-shop, and concreting work, is fully set forth in the report of the Superintendent.

The construction of the Sawyer Street sewer called for an unexpected expenditure. The steam drills have well sustained their claims for efficiency, and will be of great

benefit in the future. This sewer will be completed early in 1892.

The lowering of the sewer in Purchase street, from Hazard to Austin, in Union from Purchase street east, and in Campbell from Cedar to Park, were important improvements, and should be followed in the centre of the city whenever necessary.

The indiscriminate digging up of the streets to lay and repair drains, in the judgment of the Board, should be discontinued, and early action will be taken to remedy this trouble.

The paving with blocks, and curbing of a part of Fish and Pope's islands, has made a vast difference in the safety and comfort of the travel on the bridge. This work will be continued the coming year.

The continued suggestion of the Superintendent for the widening of the bridge is undoubtedly a growing necessity.

The importance of the engineering department becomes more apparent every day. The systematic arrangement of all plans, note books, records, accounts, etc., makes it possible to more readily find any data, not only for the information of this Board, but also for any persons who may seek to avail themselves of the information. The plea of the Superintendent for quarters that are fire-proof, where accumulated information can be safely placed, should be considered very soon.

The introduction of civil service rules in the employment of laborers has been for the best interests of the department.

It should be borne in mind by your honorable body that the variance between past and present expenditures are not for labor only. The increase in length of curbing from 8000 to 18,000 feet is equal to $5000 for material only. In block paving, from 50,000 to 200,000 blocks is

equal to $8000. In street cleaning, from $2000 to $8000 is equal to an increase in cost of $6000.

The petitions received during 1891 asking for street improvements, of which no part has been ordered, amount in round numbers to $61,000. This Board finds it a difficult and ever perplexing problem to adjust the wants to the appropriation, when it is also realized that the requests are in nearly all cases reasonable. At the same time, the ever present and apparent item of expense, the maintenance and repair of existing streets, walks, crossings, sewers, drains, etc., must always be considered.

The accompanying report of the Superintendent gives the work of the department for the year in a comprehensive manner.

Respectfully submitted.

CHARLES S. ASHLEY,
WM. G. KIRSCHBAUM,
MORGAN ROTCH,
THOMAS B. TRIPP,
GEORGE F. BARTLETT.

Report of the Superintendent.

City of New Bedford,
Office of the Superintendent,
Odd Fellows Building, January 1, 1892.

To the Board of Public Works.

Gentlemen: — I respectfully submit the following report of the work of the department for the past year, and suggestions of work and improvements called for the coming year.

The details of the work of this department for the year 1891 are fully shown in the tables which have been prepared and which are appended to this report.

I would particularly mention this work as follows:

HIGHWAYS AND STREETS.

Macadam. — The centre crusher, elevator and screen located at the City Yard has been in operation nearly all the season, working in a very satisfactory manner. The revolving screen, being worn out, was replaced with a new one during the year.

Early in the season Hillman street was laid with macadam from Ash to Chestnut street, giving the department one street free of mud, over which to operate the teams to and from the City Stables and yard.

Second street has been macadamed from School to Griffin, and should be extended as ordered to Rivet street. Acushnet avenue has been rebuilt from Bedford to Rock-

land street, and should be continued to Division street in the spring. Division street, between County and First street, was a much needed improvement, and should be completed to Water street.

The rebuilding of the section of Kempton street at the St. Lawrence Cemetery to the town line was a much needed improvement, best appreciated by a drive over the section to the west. The completion of two blocks of Cottage street, between Middle and Mill street, calls attention more forcibly to the need of macadam on this important thoroughfare.

The removal of the deep gutters at the intersection of Allen, Wing and County streets, and replacing with macadam and concrete walks, has made a great improvement. The same remedy has also been applied to a number of such cases, but a large number still remain that need attention. The completion of two blocks of macadam on Arnold street, west of Atlantic, calls attention to the section of Arnold street between this isolated section and the nearest macadam at Cottage street.

Grinnell street now has a good surface of macadam from Water to Dartmouth street, except the section from Second to Acushnet avenue, and from Crapo to Orchard street.

I would suggest that early attention be given these sections.

The portable crusher has been in operation only a part of the season. The crusher was allowed to remain on the Bolton road during the winter of 1890 and 1891, and early in the spring Bolton road and Rivet street, from County street to Bolton road, was completed with macadam. After remaining idle at the City Yard for some time, the crusher was removed to a temporary site near the corner of Acushnet avenue and Beetle street.

No crusher stone was bought at this place, as enough

stone of the best quality of granite was taken from the line of the sewer trench in Sawyer street to complete the macadam on Coggeshall street, from Acushnet avenue east 1672 feet, and also one block on Purchase street from Weld to Clark.

The crusher remains in the same location, and the stone from the Sawyer street sewer is being accumulated at the present time to complete Purchase street with macadam from Clark to Coggeshall street.

The gutters are now laid ready for macadam from Clark to Cedar Grove street.

Recommendations. — The length of macadam streets is about 25 miles; at least ten per cent. or $2\frac{1}{2}$ miles will call for repairs each year. I would renew the suggestion in my last report, that a crusher with greater capacity be procured for the City Yard, and the present crusher located at the south end of the city, and the portable crusher at the north end. These crushers to be furnished with small bins, elevator and screen. A larger crusher at the City Yard is a great necessity, as it is located in the centre of the territory where the work is most needed. Aside from the first outlay and increased cost, it will not require over two men's labor, in addition to the present force, to double the capacity of the plant. If such a crusher is procured, we can keep up the repairs on old streets, and at the same time macadam streets that have great need of such improvement.

The following streets call urgently for macadam:

County road, near Phillips road, about 3000 feet.

Repair Acushnet avenue from Sawyer street to Lund's Corner.

Durfee street, Cedar to Shawmut avenue.

Cottage street, Durfee to Mill and Middle to Court.

Parker street, from County to Summer.

Sycamore, from Thomas to Ash.

Ash street, from Sycamore to Bedford.

Bonney street, from Allen to Rockland.

Rockland street, from County to Dartmouth.

Rivet street, from Bolton road to Dartmouth street.

West French avenue, from Cove street to Middle Point road.

Middle Point road, from West French avenue to Butler street.

If the two last named sections of streets were macadamed, it would give a good road down the centre of Clark's Point, and the wide avenues around the Point could be preserved for pleasure driving much longer.

The following is the cost of the crushing as we have it charged:

CENTRE CRUSHER.

5,949 tons of stone at 41.87 cents per ton.
8,634 tons of stone at 46.56 cents per ton.

14,583 tons of stone crushed at an average cost of 32.3 cents per ton.

PORTABLE CRUSHER.

3,369 tons of stone Coggeshall street, between Acushnet avenue and Bennett street, and Purchase street, between Weld and Clark streets, at 14.29 cents per ton.
532 tons of stone Bolton road, Rivet street south, and Rivet street, between County and Bolton road, at 40.33 cents per ton.
3,302 tons of stone Bolton road, Rivet street south, and Rivet street, between County and Bolton road, at 50 cents per ton.

7,203 tons of stone crushed at an average cost of 36.64 cents per ton.

Streets Graded. — A number of streets have been graded and made passable during the year.

Rock street has been opened to travel from Coffin avenue to Belleville road.

Rockdale avenue is now open to travel from Allen to Dartmouth street.

The steep hill on the Phillips road has been partially

cut down and the material used to gravel the same road from Spooner's mill to the Braley road. This hill should be cut to the final grade the coming year. The effect of the change already made in the grade of this road has been to take a large share of the travel from the County road of teams going and coming from Braley's.

Hunter street, from Kempton to Hillman, has been graded, and also made passable through to Maxfield street.

Cottage street opened to travel from Parker to Durfee street.

Page street opened through to Grape street.

Bethel street cut as near as possible to regular grade between William and Elm.

Bowditch street partially graded and opened for travel to Sawyer street.

Davis street cut and filled to a safe grade from Acushnet avenue.

Weld street made passable from County to Mt. Pleasant street.

Orchard street partially graded from Dartmouth to Grinnell street.

Myrtle street opened through to Linden street and made fairly passable.

A grading gang has been placed in Hawthorn street to complete that street through to connect with the road built by the Town of Dartmouth the past fall.

When Hawthorn street is completed, work will be commenced on Rockdale avenue to open up the section between Allen and Kempton streets, and Cove road and Dartmouth street.

Recommendations.—The sharp hill on the Tarkiln Hill road should be cut down at no distant day. The sharp hill on the Hathaway road from Shawmut avenue west should be cut to a suitable and serviceable grade this winter.

Bowditch street should be graded between Sawyer street and Hathaway avenue this winter. Rock street should be widened from Belleville road to Howard avenue, and accepted and opened to travel from Howard avenue to Main street, giving an avenue 60 feet wide from Sawyer street to the Head of the River.

Rockdale avenue should be opened to travel from Cove road to Dartmouth, and from Allen to Kempton street. Cove road, from County to Orchard street, should be filled to grade as far as the bank wall has been completed. Butler street should be cut to an easier grade to make a serviceable street in the future. Bolton road should be accepted and opened to travel from the Howland Mill village to Cove road.

Paving. — I would ask that you consider the economy of paving all streets with granite blocks. The first cost is much greater for blocks, but they are the most economical in the end. Cobble paving is the most crude and wasteful form of paving laid; the wear and tear of vehicles alone being much heavier on cobble than on any other form of paving.

During the past twelve years the traffic on the main streets has increased many times.

It is not so many years ago that all teaming was done by the day, regardless of the load carried. At present nearly all teaming is done by weight or quantity, and the sharp competition between teamsters has forced prices down to so low a point as to necessitate carrying extremely heavy loads in order to make a profit. Where a good load used to be considered at from four to six tons for four horses, it is now common practice to load from six to twelve tons. With this increase in load, the tires of most heavy vehicles remain of the same width.

The weight that cobble stones may be forced to bear can best be appreciated by calling to your mind that when

a narrow tired wheel, with a heavy load, rests on the top of a cobble stone, a weight of from one to three or more tons is brought to bear; then you should also remember that this weight per wheel is constantly slipping and sliding from the top of a cobble into the space between the stones, causing a grinding action and a blow that soon picks out all the weak stones.

The stones of poor quality soon give out under this constant pounding. Channels are worn between the stones, and very soon the surface of a much-travelled cobble paved street is a danger and menace to horses, vehicles and drivers.

The first cost of cobble paving as compared with block paving is as follows:

Cobble paving, 50 to 75 cents per square yard.

Block paving, $2.00 to $3.00 per square yard on sand foundation.

I would suggest the paving of the main lines of travel with granite blocks, as fast as can be done.

Blocks in quantity of not less than 500,000 should be laid each year.

Block paving has been laid on a number of streets fully set forth in the table appended.

As the Water Department contemplate replacing their cement-lined mains with iron pipe in the centre of the city in 1892, I would suggest that some of the less important thoroughfares receive block paving. This will be a step only a little ahead of what will soon be actual necessity.

During the coming year, I would suggest that Sixth street, from William to Union, and Acushnet avenue, from Union to William, be paved with blocks. The order for paving the south side of William street, from Pleasant to Sixth, is now on file in this office.

Cobble paving has been relaid on a number of streets,

Acushnet avenue, from Mill to Elm, and Water street, from Madison to Leonard, being the most extensive. The paving of Cedar street, from Austin to Durfee, was a much needed improvement, making a safe street of a section that was formerly dangerous. Fourth street, both sides, from Wing to Grinnell, was paved, and on the west side of the street railway track from Grinnell to Potomska street, the cold weather stopping the work at that point.

The coming year the following streets should be cobble paved:

Durfee street, from Mt. Pleasant to Cedar.

Cedar street, from Parker to Smith.

Cedar street, from Middle to Morgan.

Fourth street completed to Rivet street, and Rivet and Potomska streets, between Water and Fourth.

Howland street, from Acushnet avenue to Water street.

Linden street, from County to Ashland, should be relaid with smaller cobbles.

Curbing. — 17,568 feet of curbing was laid the past year, as shown in detail in the table appended, and the good effected by the placing of the above length in the streets, can be best appreciated in certain sections that have been neglected for years. The great convenience and accommodation to all citizens, as well as the sightly and well-kept streets, are sufficient reason why the department should call for an appropriation large enough to lay 40,000 feet of curbing in 1892.

The rebuilding of streets in the centre of the city call for curbing, to some extent, to replace the shallow and unsightly curbing seen in some of the well-traveled thoroughfares.

It is almost impossible to relay some of the old curbstones, and to keep them in place when laid seems not to have been accomplished as yet.

Crosswalks. — The crosswalks laid the past year are fully set forth in the appended table. I would suggest that granite or flag crosswalks for the centre of the city be at least 24 inches wide.

Concreting. — The work done by this branch of the department should be increased the coming year. A large part of the work of the past year has been in repair of old walks, and there is still great need of more work in the same line.

The building of new concrete sidewalks should be pushed as fast as the demand is made for such improvement. A number of walks ordered are on file in this office.

Concrete crosswalks are much needed on some of the main thoroughfares to replace old stone crosswalks, and for safety and convenience.

Flagging. — An increased amount of flagging should be contracted for the coming year, to replace the flag-walks that are badly broken. It is not necessary to go into the side streets to see the need of the work.

I would suggest a higher grade of flag-stones to be trimmed and squared ready for laying, four feet wide and not less than two feet long. Stone can be contracted for, ready for laying, at a less cost than to buy the stone and trim them here. Another advantage will be the hastening of the work. At least 25,000 square feet should be called for.

Bank Walls. — This work is fully shown in the table appended.

The heavy wall at Clark's Cove has been extended to a point west of Crapo street. A landing and steps leading to the beach has been placed at the foot of Crapo street. A heavy cap or edge-stone has been placed at this point, and is a sample of what should be placed on the outer edge of the wall for the entire length.

This work can be contracted for this winter at a lower figure than in the summer season. I would suggest immediate action on this matter. The wall built the past year has been more expensive than in 1889, as the foundation averaged a greater depth and the wall much better constructed.

The cost to date has been as follows:

Appropriation,	$12,000.00
Cost, including steps at Crapo street, 1890 and 1891,	7,249.93
Balance,	$4,750.07

Street Cleaning. — Early in the year a system of street cleaning was put in operation, and continued except when delayed by lack of sufficient funds to carry on the work.

That clean streets are appreciated is soon made manifest when the work of sweeping and scraping has been suspended at any time. More money should be set aside for this work, so that no delays can occur during the year.

I would call your attention to the apparent lack of appreciation, or more properly carelessness, on the part of store-keepers on our main streets. After the streets have been swept and the dirt picked up, it is rather discouraging to see employes of stores sweep all sorts of rubbish across the sidewalk on to the paving recently cleaned.

The expense has been as follows:

Gross cost,	$7,808.37
Accounted for in credits,	2,022.14
Net cost,	$5,786.23

Clearing snow and ice:

Gross cost,	$342.08
Credits,	34.71
Net cost,	$307.37

Ashes and Rubbish.—This item of expense will probably have to be increased the coming year; the increase in territory to be covered renders it improbable that the present force can keep the streets clear.

The building up of new streets continually adds to the miles of streets that are reached by this service. The mixing of swill and offal with the ashes should be prevented. As the dumping grounds are mostly streets whereon people will erect houses for occupancy, some method should be adopted for the separation of ashes from all perishable matter.

A system of collection of ashes and rubbish should be adopted whereby no barrels, boxes or bundles should be allowed in the street. This could be accomplished by making it compulsory for the abutters to place the receptacles on their own premises, as near the street line as possible. The only objection to be raised is the added cost of collection, but to my mind this is more than offset by the freeing of the sidewalks of obstructions more or less unsightly and dangerous.

The cost has been as follows:

Cost of collecting ashes and rubbish,	$6,911.76
Credit from various accounts for filling,	3,106.25
Net cost to highways and streets,	$3,805.51

Of this sum $3,777.61 is charged in the account of streets graded and graveled.

CITY YARD.

City Stable. — The system of feeding the horses has been changed. The head or front of each stall has been cut through and arranged so that when feeding, the horse has a trough across the entire front of the stall. When

not feeding, the trough is tipped outward, showing a blank wall at the head of the stall.

The shutes for hay have been extended so that the horses do not have to reach up for the hay and in this manner draw seeds and heavy particles into the lungs.

A stove with a coil heater and a boiler has been placed in the harness room to furnish hot water for cleaning harnesses and for cut feed to the horses.

The ventilation must be changed to prevent the odor from the stable rising into the loft where the hay and grain are stored. If room could be spared, it would be a good idea to provide each teamster with a locker for the storage of his personal effects, rubber and oil suits, rubber boots, hats, caps, whips, etc.

Teaming. — January 1st, 1891, the department had 30 horses; sold during the year, 4; died, 1; bought, 9. On hand December 31st, 1891, 34 horses. One horse should be sold as unsound. The increase of the work of the department on streets and collecting ashes should be met by adding 3 horses and single carts to the teaming force; this should be done early in the year.

The necessity for more shed room grows more apparent, and should be undertaken at once as a matter of economy in maintenance and repairs.

STABLE AND TEAMING ACCOUNT.

Stock on hand, January 1, 1891, (horses, teams, harnesses, hay, straw, grain, etc.,)	$14,038.81	
Gross cost for 1891,	29,977.98	$44,016.79
Received from Water Works, (board of horses),	$421.71	
for stable dressing,	5.92	
for pork,	58.56	
for horses,	322.00	
from General Sewers, (board of horse),	208.00	
for old express wagon,	5.00	
for wagon pole,	10.00	

for horse collars,	9.00	
from sundry persons,	13.12	
Stock on hand, January 1, 1892, (horses, teams harnesses, hay, straw, grain, etc.,	14,013.54	15,066.85
Cost of teaming to highways and streets, (this includes repairs to building and revaluation of stock on hand),		$28,949.94
Charged for work teams have done,		$26,475.72

Blacksmith Shop. — The work of the blacksmith shop continues to show the same good result. At times the present quarters of the shop are somewhat crowded. A machine blower should be put in capable of running three forges. This would do away with the cumbersome bellows at present in use. Good use could be made of the room acquired by the change.

The cost for the year has been as follows:

BLACKSMITH SHOP.

Stock on hand, January 1, 1891,		$1,523.73
Gross cost for 1891,		4,540.99
		$6,064.72
Charged to sewers,	$3,419.28	
Water Works,	82.05	
Sundry persons,	3.55	
Engineering Dept.,	.85	
N. B. & F. bridge,	20.90	
Parks and squares,	2.60	
Pub. Works Per. Imp.,	108.32	
Stock on hand, January 1, 1892,	1,600.62	5,238.17
Cost of blacksmith work to street department,		$826.55

This includes the following charges at lowest prices to various accounts of the street department:

Repairs and rebuilding carts,	$949.10
Horse shoeing,	582.77
Repairs in stable,	43.51
on steam road roller,	21.46
in roller house,	15.40

on crushers,	112.68
on street sweeper,	30.85
Miscellaneous repairs to tools, etc.,	1,017.78
Work on derrick,	11.75
Repairs to harnesses,	24.49
in carpenter shop,	5.85
on road scraper,	7.65
on scales,	26.55
	$2,849.84

From the above it will be seen that the balance of cost of maintaining this department, unpaid by the charges to sewers, water works, etc., is $826.55, and this amount represents the net cost to the street department of all its blacksmith work. But this work charged at the lowest current rates would cost the city $2,849.84.

Roller House. — The roller was overhauled early in the year. New tubes were put in the boiler as the old ones were found to be in bad condition.

The boiler of the roller is in poor condition, owing to neglect and carelessness in the past.

A new roller is a necessity, as the old one is continually causing delay on account of repairs to the boiler or machinery. Work on macadam roads has been delayed considerably during the year by the roller having to be stopped for repairs when most wanted.

Repair Shop. — Nearly all carpenter work and all repairs have been done by the department. The present quarters allotted to this work are entirely inadequate and should be remedied as recommended.

Needs at the City Yard. — The urgent needs mentioned in my last report are loudly called for and on the ground of economy alone should be undertaken at once.

A brick building between the roller house and tool house, to be used for a machine, carpenter and paint shop and tool house, is badly needed at present. The present tool house is too small to hold the tools of the department

and tools that should be placed in the house will have to be stored in the small portable tool houses in the yard during the winter.

The roller house cannot hold the portable steam boilers owned by the department and they cannot be left exposed to the weather. The space taken for the protection of the boilers means the exposure to the weather of another cart or gear.

A shed on the west lot, as recommended in my last report, is so necessary that unless such a building is provided this winter, the depreciation of stock and fixtures exposed to the weather will be a large item in the spring.

A fence should be erected around the yard for the safety and protection of the property.

Widening Streets. — I again call your attention to the widening of important thoroughfares. Since the widening of Pleasant street, between Mechanics lane and Elm street, the narrow and inconvenient section of Pleasant street, between Union and William street, is a constant reminder of what should be.

The widening of Purchase street should receive early attention.

Hawthorn street will be a thoroughfare early in the spring to the Slocum road in Dartmouth. This street is 50 feet wide for nearly the entire length. The short section between County and Ash streets should be made the same width. This would improve the street very much in appearance, giving a wide generous walk on either side, and making that section more attractive by the unusual width of walk from curb to property line; also giving more space to the large trees that line the street.

Rockdale avenue will be open to travel from Cove road to Kempton street, 50 feet wide in 1892, 2 miles in length.

I would again call your attention to the 40 feet width

of this thoroughfare, from Kempton street to Rockdale, $1\frac{1}{4}$ miles in length. This street is on the east crest of the highland back of the city and in the future will be very important, and can be made a very attractive street by widening.

Street Grades. — The grades of all streets in the low lands referred to in my last report should receive early attention before expensive buildings are erected. The grades of these streets should be established at proper elevations, and all new buildings should be erected to conform to the new grades, the streets being adjusted to the changes.

The discharge of roof or surface water from the property of abutters on and over the sidewalk should be prevented. This is a great nuisance on some of the older streets. Pleasant street on the east side, from Union to William street, is a sample with which you are familiar in wet weather. In winter it is a menace to all pedestrians.

Pump. — The purchase of a four inch centrifugal pump and engine to be used in connection with one of the boilers at present used with the steam drills will be a great help, and prove economical when large quantities of water are to be handled.

SEWERS.

The details in relation to the sewers laid in 1891 are fully set forth in the appended table. The Sawyer street sewer has been the most important work of the year. The unexpected amount of ledge encountered so far in the construction will bring the total cost over the appropriation made for this purpose. The excavation from the river west to Rock street was very easily made, being in sand and gravel. From this point westerly to the present terminus of the excavation, the bottom or grade line of

the sewer has been in rock. From the river west, a distance of 1426 feet, a line of ten and twelve inch pipe has been laid on either side of the main sewer to take the drainage of the houses. This arrangement will avoid flooding cellars of adjoining abutters when the main sewer is full of water. A six inch pipe has been laid the entire length as an under drain, to free the trench of water in construction.

A special appropriation will be needed early in 1892 to complete the sewer to the railroad track, so as to take the water and spring freshets flowing from the valley west of the railroad and north from Sawyer street.

The use of steam rock drills in excavating the Sawyer street sewer has been an unqualified success. The great saving in expense over the old method of hand drilling cannot be estimated. Formerly a gang of three men drilled holes to a depth of from 4 to 5 feet. The holes had to be blasted, and the rock surface cleared, before new holes could be drilled. The average day's work being not over 16 feet vertical depth.

The steam drills drill holes from 6 to 14 feet vertical depth at each setting, if necessary. The average day's work being 45 feet for the small drill and 65 to 75 feet for the large drill.

The beauty of this work is apparent when it is remembered that one hole serves for the entire depth of a trench ordinarily. When the depth exceeds 7 feet the hole is filled with sand to within about 5 feet of the surface of the rock. This 5 feet is then blasted and cleared away, then another section of hole is cleaned out, and the operation repeated until the bottom of the excavation is reached. In a good depth of rock one large drill will keep a gang and derrick busy all the time.

The sewer has been completed to the conduit of the Water Works, under which a tunnel has been driven in

the solid rock. This tunnel is now being enlarged to allow room for the brick work.

The lowering of the sewer in Purchase street from Hazard to Austin and east in Wamsutta street to the railroad track, was a much needed improvement, and will greatly benefit the adjoining property. In lowering this sewer an amusing mistake came to light. The catch basin at the foot of Austin on the east side of Purchase is nearly in line with the sewer in Austin street. This catch basin was constructed with an extra large street opening, and also a large outlet to the sewer, fully three times the capacity usually provided. Instead of the outlet being connected with the sewer so that the flow of water from the basin into the sewer was with the current, this outlet was carried directly across Purchase street, and intersected the Austin street sewer, on its curve into Purchase street, near the west line of said Purchase street.

The effect of a heavy flow of water down the sewer in Austin street must have been to choke the flow of water from the basin, until the pressure of water accumulated in the street forced its way slowly into the sewer, against the rapid current in the sewer.

The proposition of the New Bedford Five Cents Savings Bank to pay for the cost of a sewer in Purchase street, from Union street sewer to the north line of Sears court, and give the same to the city, provided the city pay the cost of lowering the sewer in Union street sufficient to meet the sewer in Purchase street, was accepted. This is decidedly a step in the right direction. Unfortunately a ledge of stone was met with which largely increased the cost, as owing to the nearness of the adjacent buildings, and the constant presence of pedestrians, great care had to be taken in the use of explosives.

The construction of the sewer in Shawmut avenue necessitated the lowering of the Durfee street sewer for a

distance of 600 feet to provide an outlet for Shawmut avenue sewer.

The sewer in Campbell street was also lowered to a suitable depth from Cedar to Park, removing another shallow sewer from the list.

In extending the Tripp Brook sewer in Hillman street from Newton street, attention was attracted to the condition of the sewer in Newton street where the connection was made.

On examination of the sewer from Hillman street to Clark's Cove, it was found that the section of sewer from Kempton to Hillman street is liable to give out at any time. This section of sewer was built 4 feet in diameter originally, but has spread and settled to such an extent as to give measurements varying from 3 feet 1½ inches vertical and 4 feet 1 inch horizontal, showing everywhere a settlement of the top of the sewer of at least 6 inches. This section should be relaid before the street is filled to grade, as it is liable to collapse at any time under heavy loads.

Fifty-four catch basins have been built during the year and 2 discontinued. I would suggest that at least 100 be built in 1892.

The benefit to the surface of the roadway in abolishing the deep gutters at the intersection of streets should be a strong argument in favor of the increase.

Lowering Sewers. — As the Water Department contemplate replacing the cement lined water mains with iron pipe in the center of the city during 1892, I would call your attention to the necessity for deeper sewers on William and Union streets, from the river west through the business centre.

In my judgment no better time could be had for such work, as all tearing up of the street surface would be done the same year, and the following year the paving

could be relaid with a prospect of remaining in place for some time. This work demands more than a casual glance. Each new building erected on the lines of the above mentioned streets find it necessary to build a long drain down the street to enter the sewer that passes in front of the premises.

As a result of the constant addition to the list of these long drains, the streets are being filled with a network of drain pipes, laid in many cases with little regard to grade or line, and at all depths from 6 to 12 feet below the surface. The necessity for repairs to this network of private drains will increase as the years go by. As no record has been made of the location of drains laid previous to January 1st, 1891, it will cause more or less excavation in the streets to locate the particular drain, if in need of repairs.

This work should be undertaken on the streets indicated in 1892. This work can be pushed by working 24 hours a day, using three gangs of men, each working 8 hours. This work seems to me to stand next in importance to the completion of the Sawyer street sewer to Purchase street.

Grape street sewer should be extended west to the brook.

PARKS AND SQUARES.

The Common should be overhauled quite thoroughly, a system of drainage being the first requirement. New paths to meet the changed condition of travel should be made and graveled or concreted. Curbing should be laid around various sections whenever the fence is removed.

State street must be opened to travel soon.

At City Hall I would recommend a change in the layout of the paths in order to make the shortest distance across the park. The space north of the hall should be sodded or concreted, as there seems little prospect of grass grow-

ing in the shadow of the building. The location of a public urinal on the northwest or southwest corner of the square, should receive early attention as a public necessity.

NEW BEDFORD AND FAIRHAVEN BRIDGE.

During the past year the roadway across Fish Island has been block-paved north of the street railway track and a curbing and concrete walk laid.

The block-paving, curbing and concrete walk has been laid on Pope's Island from the west end east 829 feet. In 1892 the block paving, curbing and walk should be completed on Pope's Island, and the same work carried out with the west approach from Front street east to the old culvert.

This culvert should at once be closed or the water way contracted to a reasonable and safe width. A pipe would serve all purposes if such an opening must be kept up.

The wood work is in good condition. I would again suggest the subject of widening the bridge receive early consideration.

The following report of the draw-tender for the year ending December 31st, 1891, shows the number and kind of vessels for which the draw has been opened:

Month.	Boats.	Schooners.	Ships & barks.	Tugs.	Barges.	Total.
January,	4	22		52	7	85
February,	1	31		25	5	62
March,	14	53		75	17	159
April,	60	62		49	12	183
May,	145	40		53	7	245
June,	155	51		52	16	274
July,	210	47		50	14	321
August,	171	50	1	35	7	264
September,	148	63		60	6	277
October,	114	60	2	73	11	260
November,	79	39		39	11	168
December,	32	31		40	12	115
	1133	549	3	603	125	2413

ENGINEERING DEPARTMENT.

The work of this department of Public Works is gradually assuming the proportions that it should have had years ago. The work is very much hampered by lack of detail information with relation to the old work.

In addition to the regular work of the department, all fragments of reliable information are being collected into serviceable shape. All plans of streets, profiles of grades, sewers, etc., are being reduced to standard sizes.

In making up profiles of streets and sewers, it is found that many refer each to a datum of its own. This defect is being remedied by running careful lines of levels connecting the grades with the datum used by the city for many years. The datum of street and sewer grades are being changed to one uniform level. This work is very necessary for the future, in case existing marks or references were lost, dug up, thrown out by frost, run over by wagons, broken off, or changed by alterations of building.

By referring all levels to one datum, loss of all references on one street does not impair the accuracy of the work. One profile refers to a point on the top of a curbstone in front of a telegraph pole as being assumed at an elevation of 10, when in fact it is about 80 feet above the regular city datum.

A card locality index of all information in this department has just been undertaken, and will be of great benefit and usefulness.

I would call your attention to the fact that this department is accumulating information of great benefit in the future, and impossible to replace in case of fire.

The quarters occupied at present are far from being fire-proof. This matter should receive attention, for while accounts can be reproduced from the auditor's books, the information accumulated for future reference in engineer-

ing work would be a total loss and detrimental to the future interests of the city.

CIVIL SERVICE.

The introduction of civil service in all classes of labor in the service of the Board has been a decided step in the right direction.

The fact that any and all persons stand equal chances of employment under this system, regardless of politics, race or color, seems to me to be its strongest point.

It is a most reliable help in weeding out the worthless portion of a large body of laborers, and a reliable check against their slipping in again. It also recommends itself in placing the man with a family to support ahead of a single man with none dependent on him.

Respectfully submitted.

A. B. DRAKE,

Supt. of Public Works.

TABLE No. 1.

Macadam Streets.—1891. New.

Streets.	Between what Points.	Length. Feet.	Width. Feet.	Square Yards.	Tons Stone.	Cost.
Acushnet ave.,	Rockland and South,	416	18	832	212	$379.72
Allen,	County and Green,	335	22	819	143	217.49
Arnold,	Atlantic and Tremont,	543	17	1,026	577	806.97
Bolton road,	Rivet, south,			2,234	962	1,295.68
Coggeshall,	Bennett and Acushnet avenue,	1,672	22	4,087	2,452	2,007.21
Cottage,	Middle and Kempton,	317	18	634	301	396.24
"	Kempton and Mill,	167	17	315	126	191.01
Division,	First and County,	555	19	1,172	505	773.17
First,	School and Spring,	169	19	356	146	202.18
Grinnell,	Orchard and Dartmouth,	390	18	779	350	564.77
Hazard,	Purchase and Pleasant,	202	26	584	243	338.01
Hillman,	Chestnut and Ash,	836	18	1,672	793	1,049.89
Mill,	Purchase and Pleasant,	173	18.6	357	174	248.84
Pleasant,	William and Elm,	296	27	888	311	437.01
Purchase,	Weld and Clark,	241	27	723	349	263.58
Rivet,	County and Bolton road,	1,860	23.7	4,897	2,546	3,019.98
Second,	Cannon and Griffin,	552	18	1,104	425	697.27
"	Cannon and Madison,	514	18.7	1,068	378	641.83
South,	Acushnet avenue and Second,	201	17.4	389	122	234.93
"	Acushnet avenue and County,	373	18	745	270	551.97
Sycamore,	Pleasant and State,	381	18.4	778	280	386.97
"	State and Thomas,	440	18	880	412	581.18
		10,633		26,339	12,077	$15,285.90

TABLE No. 2. MACADAM STREETS.—1891. REPAIRED.

Streets.	Between what Points.	Length. Feet.	Width. Feet.	Square Yards.	Tons Stone.	Cost.
*Acushnet ave.,	South and Grinnell,	403	18	806	273	$440.80
* " "	Grinnell and Griffin,	774	19	1634	582	920.25
* " "	Griffin and Bedford,	192	18.5	395	135	217.82
" "	Sawyer and Coffin avenue,	925	22	2261	253	442.46
" "	South of Nash road,					22.31
Allen,	Square at County,			135.5	80	147.63
"	Bonney and Orchard,			482	91	159.26
"	Square at Cottage,	69	17	130	31	51.86
Arnold,	Square at County,				15	27.88
"	County and Orchard,				21	37.24
Cottage,	Arnold and Union,				20	24.63
County,	Rivet and Thompson,	221	5.5	135	27	46.22
* "	South and Grinnell,	503	25	1397	172	308.63
Court,	East of Ash,				4	5.91
Dartmouth,	West side Fair, south,	865	10.3	993	143	233.25
"	Fair and Grinnell,	428	13.4	637	93	154.84
*Kempton,	Old to new Dartmouth line,	1000	18	2000	923	1,335.62
Lincoln,	At Arnold,	21	20	47	11	16.82
*Middle,	Acushnet avenue and Pleasant,	418	18	835	204	343.68
Mt. Pleasant,	At Durfee,			147	37	63.44
Orchard,	At Madison,	31	22	76	7	20.26
Parker,	Square at Shawmut avenue,	29	23	74	13	39.39
*Pleasant,	Kempton and Mill,	132	18	264	86	138.17
* "	Maxfield and Campbell,	693	18	1402	301	452.38
Weld,	Acushnet avenue and Pleasant,			2289	366	657.50
William,	West of Sixth,				3	5.13
	Sundry small repairs,					904.03
					3891	$7.217.41

*Rebuilt.

TABLE No. 3.

Streets Graveled and Graded —1891.

Streets.	Between what Points.	Cost.
Acushnet av.,	Division and Delano,	$307.87
" "	North of Lund's Corner,	722.00
Ash,	South of Kempton,	20.41
"	Kempton and Hillman,	26.31
"	Maxfield and Sycamore,	88.43
Austin,	Pleasant and County,	6.42
Babbitt,	Dartmouth and Field,	7.29
Bay,	West of Cottage,	12.44
Belleville rd.,	East of Acushnet avenue,	80.42
Bethel,	William and Elm,	182.60
Blackmer,	First and Acushnet avenue,	163.56
Bonney,	South of Rivet to Thompson,	123.85
"	Washington and Allen,	13.49
Bowditch,	Weld and Cedar Grove,	41.38
"	Cedar Grove and Sawyer,	600.62
Braley road,	Acushnet ave. and Freetown line,	22.65
Bullock,	Austin and Durfee,	47.37
Campbell,	Cedar and Park,	28.87
Cannon,	Second and Acushnet avenue,	44.45
Cedar Grove,	Rock and Front,	669.90
" "	County, west,	182.20
Chancery,	Hawthorn and Arnold,	30.93
"	North of Hillman,	5.42
Clark,	State and Mt. Pleasant,	328.36
Clay,	Oak and Ward,	20.25
Coffin av.,	East of Acushnet avenue,	41.78
Coffin,	From river to Second,	20.82
Coggeshall,	East of Rock,	10.29
"	East of Acushnet avenue,	26.30
Columbia,	Clay and Allen,	542.98
Cottage,	Middle and Kempton,	129.70
"	Smith and Campbell,	49.36
"	Parker and Durfee,	418.98
County,	At head of Russell,	9.92
"	Linden and Weld,	94.03
"	At Peckham,	14.44
Court,	Sisson and Reed,	103.96
Cove road,	Margin and Dartmouth line,	98.84
Crapo,	Rockland and Thompson,	75.49
Davis,	Rock and Acushnet avenue,	590.18
Delano,	First and Second,	8.87
Division,	County and Crapo,	38.63
Elm,	Florence and Reed,	156.41
Emerson,	Arnold and Union,	72.73
First,	Delano and Potomska,	164.32
"	Grinnell and Howland,	35.51

Streets Graveled and Graded—*Continued.*

Streets.	Between what Points.	Cost.
French ave.,	South of Cove street,	$65.60
Front,	Hicks and Coggeshall,	55.74
Gifford,	East of Water,	24.17
Grape,	West of Page,	9.01
Griffin,	East of Acushnet avenue,	4.81
Harbor,	Cove and Gifford,	239.98
Hathaway rd.,	Mt. Pleasant street and Shawmut ave.,	174.95
Hawthorn,	West of Brigham.	173.96
Hickory,	Dartmouth and Harrison,	14.50
Hicks,	Acushnet avenue and Front,	10.96
Hillman,	Ash and Park,	91.40
"	Newton and Hunter,	550.97
Howard ave.,	Acushnet avenue, east,	11.50
Howland,	East of Water,	8.87
Hunter,	Kempton and Maxfield,	233.59
Hyacinthe,	North of Rivet,	168.91
Independent,	West of County,	45.14
Juniper,	Larch and Rivet,	7.10
Katharine,	County and Crapo,	191.15
Kempton,	West of Reed,	49.20
Larch,	Juniper and Dartmouth,	72.35
Lombard,	South of Rockland,	15.90
Maxfield,	At Park,	20.23
McGurk,	North of Middle Point road,	9.19
Mill road,	Main road and Acushnet avenue,	53.76
Mill,	West of Hunter,	85.46
Mitchell,	Coggeshall and Sawyer,	202.25
Mt. Vernon,	Mt. Pleasant and Shawmut avenue,	21.70
Mosher,	County and Crapo,	6.40
Mt. Pleasant,	O. C. R. R. and Plainville road,	27.50
Myrtle,	Linden and Weld,	25.95
Nash road,	Acushnet avenue, west,	41.58
Nelson,	West of County,	290.57
Newton,	North of Court,	85.90
"	Kempton and Hillman,	360.59
North,	West of Florence,	12.93
Oak,	South of Allen,	131.29
Orchard,	South of Rivet,	224.15
"	Grinnell and Dartmouth,	167.28
Page,	Grape and Allen,	63.48
Palmer,	Union and Court.	64.87
Park,	Arnold and Maxfield,	359.35
"	Smith and Parker,	104.28
Parker,	West of Oak Grove Cemetery,	7.33
"	At Rockdale avenue,	12.07
Phillips road,	Acushnet avenue and Braley road,	3,073.80
Plainville rd.,	O. C. R. R. and Dartmouth line,	884.39
Pleasant,	Mechanics lane and Elm,	14.35
Pope,	Lagoon at O. C. R. R.,	1,098.96
"	County and Chestnut,	402.96

Streets Graveled and Graded — *Concluded.*

Streets.	Between what Points.	Cost.
Prospect,	Potomska and South,	$6.65
Purchase,	Weld and Clark,	25.07
"	North of Sawyer,	5.96
Reed,	Arnold and Kempton,	145.26
Rivet,	County and Juniper,	1,207.26
Robeson,	West of Shawmut avenue,	6.66
Rock,	Kilburn and Belleville road,	2,377.67
Rockdale av.,	Cove road and Allen street,	4,454.68
" "	North of Kempton,	6.05
Rockland,	Crapo and Bonney,	7.40
Sawyer,	East of Rock,	50.19
"	West of Acushnet avenue,	11.74
Second,	Division and Blackmer,	187.55
Shawmut av.,	Smith and Parker,	104.68
" "	Topham street and Dartmouth line,	222.61
Smith,	Walden and County,	34.97
"	West of Shawmut avenue,	5.00
Spruce,	North of Parker,	20.91
State,	Linden and Weld,	5.63
Sycamore,	Summer and Cedar,	21.72
"	Cedar and Park,	363.20
Tarkiln hill rd.	Acushnet avenue and O. C. R. R.,	98.05
Thompson,	West of County,	12.48
Tremont,	Hawthorn and Union,	19.04
Walden,	Sycamore and Smith,	113.01
Ward,	Clay and Allen,	89.84
Weld,	Pleasant and State,	10.04
"	County and Mt. Pleasant,	519.06
Willow,	Cottage and Cedar,	68.67
Wilson,	Austin and Durfee,	110.73
Winsor,	County and Crapo,	77.86
		$26,943.00

TABLE No. 4.

Curbing, New. — 1891.

Streets.	Between what Points.	Length. Feet.	Cost.
Acushnet av.,	E. side, Division, north,	111.0	$74.95
" "	W. side, south of Rivet,	153.8	103.60
Allen,	S. E. corner Cottage,	12.0	9.94
"	N. E. corner Cottage,	12.0	10.07
"	N. side, Cottage, west,	38.6	24.16
"	N. E. corner Ward,	12.4	11.83
"	N. W. corner Ward,	11.6	11.07
Arnold,	N. side, Orchard, east,	312.3	226.87
"	S. side, Atlantic to Tremont,	491.8	348.45
"	S. side, Atlantic, east,	34.2	23.49
"	N. side, Atlantic and Tremont,	363.9	249.06
Ash,	W. side, north of Union,	137.0	105.53
Austin,	S. W. corner Pleasant,	11.3	10.00
"	S. W. corner Ashland,	12.0	9.88
"	N. side, Ashland to Cedar,	705.7	504.36
Bedford,	N. side, Cottage, west,	18.5	15.70
Blackmer,	S. side, First to Water,	146.0	99.58
"	N. side, First to Water,	156.0	109.26
"	S. side, First to Second,	181.7	113.99
"	S. W. corner Acushnet ave.,	8.3	5.45
Bowditch,	E. side, north of Weld,	20.5	15.49
Cedar,	E. side, Austin to Durfee,	532.2	363.01
"	W. side, Austin to Durfee,	521.0	347.22
"	N. W. corner Austin,	11.9	8.88
Clinton,	S. side, Ash and Cottage,	66.8	45.03
Coggeshall,	N. side, Mitchell and Bennett,	268.3	183.88
"	N. side, Mitchell and Rock,	24.5	17.89
"	S. side, Rock and Front,	48.8	30.32
"	N. side, Rock and Front,	183.5	128.60
"	S. side, Front and Howard,	124.7	79.25
"	S. side, Howard & Acushnet av.,	103.6	68.24
"	N. side, Howard & Acushnet av.,	66.2	46.96
Cottage,	W. side, Bedford, north,	26.0	22.39
"	W. side, Middle to Kempton,	319.2	235.11
"	W. side, Kempton, north,	49.0	48.09
County,	W. side, Katharine, north,	48.8	34.75
"	S. E. corner Rivet,	8.0	5.70
"	S. W. corner Rivet,	16.7	14.86
"	N. W. corner Rivet,	14.0	12.85
"	W. side, Arnold, north,	10.4	8.90
Dartmouth,	W. side, at new gate, Rural Cemetery (two corners),	20.9	18.76
"	E. side, Fair to Washington,	215.5	137.73
"	E. side, Washington to Grinnell,	174.2	113.30
Delano,	S. side, Water to First,	144.7	100.61
"	N. side, First to Second,	181.0	108.51

Curbing, New — *Continued.*

Streets.	Between what Points.	Length. Feet.	Cost.
Division,	S. side, Water to First,	162.0	$150.04
"	N. side, Water to First,	167.0	150.69
"	S. side, Second and County,	26.2	16.54
"	N. side, Second to Acushnet av.,	250.7	160.43
"	S. E. corner County,	8.0	5.53
Durfee,	N. side, east of Mt. Pleasant,	25.3	15.90
Elm,	S. E. and S. W. corners Bethel,	25.1	19.11
"	N. W. corner Second,	12.6	9.04
Fifth,	W. side, Russell and Madison,	144.0	101.23
First,	E. side, Division to Delano,	271.3	189.93
"	W. side, Delano to Blackmer,	353.4	227.85
"	E. side, Blackmer and Rivet,	90.0	71.68
"	W. side, Blackmer and Rivet,	213.2	144.00
"	E. side, Rivet and Potomska,	452.0	578.23
"	W. side, Rivet and Potomska,	373.5	
Fourth,	W. side, Thompson to Rockland,	319.0	206.58
"	N. E. corner Rockland,	6.3	5.03
"	E. side, Rockland to South,	410.3	262.10
"	W. side, Washington, south,	95.1	64.15
"	W. side, School, south,	83.6	64.03
"	W. side, Union, south,	21.7	12.29
Front,	W. side, south of Hicks,	56.0	42.21
Gifford,	S. side, east of Water,	101.2	301.91
"	N. side, east of Water,	298.8	
Grinnell,	S. side, east of Dartmouth,	165.8	109.24
Hicks,	S. side, Front, west,	44.0	37.16
"	N. side, Front, west,	537.9	371.95
Hillman,	N. E. corner Ash,	8.0	7.54
"	N. W. corner Ash,	11.7	9.49
Katharine,	N. side, County, west,	26.1	16.70
Madison,	N. W. corner Second,	7.1	5.02
"	S. E. corner Seventh,	13.2	12.75
Mill,	S. side, west of Purchase,	73.2	50.27
"	N. W. corner Pleasant,	16.0	15.63
"	S. side, Pleasant and Foster,	40.0	22.89
Mitchell,	W. side, Sawyer, south,	17.0	12.08
Newton,	E. side, Elm to Kempton,	524.4	751.57
"	W. side, Elm to Kempton,	517.7	
Orchard,	E. side, Grinnell and Dartmouth,	338.7	245.01
Pleasant,	E. side, Mechanics lane and Elm,	136.1	216.98
"	W. side, Mechanics lane and Elm,	141.0	
Potomska,	S. side, Water to First,	134.0	86.66
"	S. side, First to Second,	204.3	134.83
Rivet,	S. side, Acushnet ave. to County,	376.7	250.05
"	Four corners at Crapo,	47.7	44.57
"	N. W. corner Bonney,	29.5	21.23
Sawyer,	S. side, Mitchell, west,	16.6	11.80
Second,	W. side, Division, north,	145.2	92.47
"	E. side, Delano to Blackmer,	404.0	263.55
"	E. side, Rivet, south,	183.3	128.35

Curbing, New—*Concluded.*

Streets.	Between what Points.	Length. Feet.	Cost.
Second,	E. side, Rivet to Potomska,	499.0	$333.05
Shawmut av.,	W. side, Smith to Campbell,	261.7	187.53
" "	W. side, Campbell to Willis,	231.2	161.15
" "	W. side, Willis to Parker,	319.4	229.47
Smith,	S. side, Walden, west, (including gutter),	18.0	16.90
State,	E. side, Linden to Weld,	453.5	308 21
Sycamore,	S. side, Pleasant to State,	360.0	260.40
"	S. side, State to Walden,	157.1	104.77
"	S. W. and N. W. corners State,	15.2	13.14
"	S. E. corner Ash,	13.6	7.88
Thompson,	N. side, Fourth, west,	20.8	12.95
Walden,	W. side, Smith, south, (including gutter),	18.4	17.29
Weld,	S. side, west of Acushnet avenue,	353.4	231.72
"	S. side, Pleasant to State,	220.8	176.83
Wing,	N. W. corner Acushnet avenue,	8.3	6.29
		17,206.4	$12,047.44

TABLE No. 5.

Curbing Relaid—1891.

Streets.	Between what Points.	New Feet.	Old Feet.	Total Length.	Cost.
Acushnet av.,	E. side, South to Grinnell,			409.1	$56.36
" "	W. side, South to Grinnell,	247.9	146.9	394.8	170.00
" "	E. side, Grinnell to Howland,	12.0	498.3	510.3	71.56
" "	E. side, Howland to Griffin,	11.9	144.1	156.0	30.53
" "	E. side, Griffin to Bedford,	15.0		15.0	15.13
" "	W. side, Wing to Bedford,			21.0	13.07
" "	E. side, William to Elm,			269.9 } 258.0 }	49.43
" "	W. side, William to Elm,			12.0	5.20
" "	N. E. corner High,				
Allen,	N. side, Bonney to Cottage,	11.0	181.0	192.0	24.08
"	S. W. and N. W. corners County,			24.0	9.15
Bedford,	S. side, Sixth to County,			345.5	31.11
Bethel,	W. side, William to Elm,	43.7	97.0	140.7	36.52
Campbell,	Four corners at Pleasant,			44.5	15.30
Cottage,	W. side, Allen and Bedford, (including gutter),			37.0	7.58
"	E. side, Middle to Kempton,			360.6 } 319.2 }	54.47
"	W. side, Middle to Kempton,			69 2	9.45
Kempton,	N. side, Cottage, west,			22.3	7.04
Maxfield,	N. E. corner Acushnet avenue,			12.7	9.47
Pleasant,	S. E. corner Elm,			37.0	11.22
Purchase,	E. side, north of Austin,			235.2	32.99
Second,	E. side, Cannon and Coffin,			165.1	29.67
"	E. side, south of Madison,			136.5	31.36
Sixth.	W. side, William, north,	4.5	132.0		

South,	N. side, Fourth to County,			176.0		13.40
Sycamore,	N. side, Pleasant to State,			364.0		46.30
"	N. side, State to Walden,			191.3		40.65
"	S. side, Walden to Thomas,			161.5		23.26
"	N. side, Walden to Thomas,			177.0		10.31
Water,	E. side, Pine, north,	12.0	55.6	67.6		23.61
Weld,	N. side, east of Bowditch,			154.0		13.21
William,	N. side, Purchase and Pleasant,			8.3		6.67
"	N. side, Sixth, west,	3.6	91.3	94.9		21.80
Wing,	S. E. and N. E. corners County,			24.0		9.17
	Sundry small repairs,					77.84
				5,606.2		$1,006.91

TABLE No. 6.

Gutters, New—1891.

Streets.	Between what Points.	Length. Feet.	Width. Feet.	Cost.
Acushnet av.,	E. side, Division, north,	111.0	3.5	$21.05
Arnold,	S. side, Atlantic to Tremont,	576.4	3.5	142.74
"	N. side, Atlantic to Tremont,	568.8	3.5	107.48
Austin,	N. side, Ashland to Cedar,	749.0 24.0	3.5 6.0	166.83
Bedford,	N. side, Cottage, west,	18.5	3.0	6.83
Blackmer,	S. side, Water to First,	146.0	3.0	26.87
"	S. side, First to Second,	181.2	3.0	31.77
"	N. side, Water to First,	143.0	3.0	32.80
Bolton road,	E. side, Rivet street, south,	542.0	3.0	171.22
Coggeshall,	Both sides, Bennett to Acushnet avenue,	3,300.4		788.32
Cottage,	Both sides, Middle to Kempton,	640.6	3.25	117.30
"	E. side, Kempton to Mill,	164.0	4.0	46.99
County,	E. side, Division and Delano,	51.0	4.0	5.36
Delano,	N. side, First to Second,	179.0	3.0	28.17
Division,	S. side, First to Second,	200.0	3.5	91.14
"	N. side, First to Second,	203.5	3.5	
"	S. side, across Second,	40.0	5.5	11.96
"	S. side, Second to County,	346.5	3.5	53.81
"	N. side, Second to Acushnet avenue,	250.7	3.5	47.50
"	N. side, Acushnet avenue to County,	69.6	4.0	42.99
Durfee,	N. side, east of Mt. Pleasant,	29.0	3.0	5.50
First,	W. side, Delano to Blackmer,	436.0	3.0	80.32
"	E. side, Blackmer to Rivet,	255.0	3.0	56.29
"	W. side, Blackmer to Rivet,	269.0	3.0	51.47
"	E. side, Rivet to Potomska,	553.0	3.0	145.71
"	W. side, Rivet to Potomska,	548.0	3.0	

Front,	W. side, Hicks, south,	56.0	3.5	13.02
Hicks,	S. side, Front, west,	45.0	3.5	10.50
"	N. side, Front, west,	54.0	3.5	117.82
		69.4	4.0	
		546.3	3.25	
Hillman,	S. side, Cedar to Ash,	92.5	3.5	109.00
		110.5	4.9	
"	N. side, Cedar to Ash,	106.0	2.0	
		39.3	4.0	
		23.5	2.5	
"	S. side, Ash and Chancery,	12.2	2.0	62.23
"	N. side, Ash and Chancery	115.5	3.0	
Katharine,	N. side, County, west,	26.1	3.5	7.02
Kempton,	S. side, old to new Dartmouth line,	977.1	3.0	676.99
"	N. side, old to new Dartmouth line,	977.8	3.0	
		20.0	2.0	
Middle Pt. rd.,	S. side, about 500 feet east of W. French ave.,	53.6	5.0	47.99
Mitchell,	W. side, Sawyer, south,	20.0	3.0	6.04
Orchard,	E. side, Grinnell and Dartmouth,	348.7	3.25	73.19
Park,	W. side, Court and Kempton,	1,023.2	4.0	289.04
"	E. side Elm and Kempton,	269.7	4.0	86.39
Purchase,	E. side, north of Weld,	248.7	3.5	59.85
"	E. side, Clark to Cedar Grove,	518.2	4.0	156.67
Rivet,	S. side, County to Bolton road,	1,696.2	3.0	887.11
"	N. side, County to Bolton road,	1,815.7	3.0	
Sawyer,	S. side, Mitchell, west,	17.3	3.0	5.21
Second,	E. side, Division, south,	48.0	4.0	10.28
"	W. side, Division, north,	145.2	3.5	27.54
"	E. side, Delano to Blackmer,	387.0	3.0	45.23
State,	E. side, Linden to Weld,	479.1	3.0	152.38
		20,937.0		$5,123.92

TABLE No. 7.

Gutters Relaid—1891.

Streets.	Between what Points.	Length. Feet.	Cost.
Acushnet av.,	E. side, South to Grinnell,	403.00	$64.19
" "	E. side, Grinnell to Howland,	544.50	37.32
" "	W. side, Grinnell to Howland,	555.60	37.08
" "	E. side, Griffin to Bedford,	159.50	44.37
" "	W. side, Wing to Bedford,	236.90	
Allen,	N. side, Bonney and Cottage,	268.80	31.57
"	N. side, Cottage, west,	52.00	5.67
Arnold,	N. side, County and Orchard,	316.10	36.31
Bolton road,	South of Rivet,		25.45
Clinton,	S. side, Cottage and Ash,	69.00	10.87
Cottage,	W. side, Bedford, north,	26.00	5.91
County,	W. side, Katharine, north,	48.80	7.00
Dartmouth,	E. side, Fair to Grinnell,	413.50	47.03
"	At Allen,		6.62
Fifth,	W. side, Russell and Madison,	144.00	29.18
Grinnell,	S. side, Orchard to Dartmouth,	157.00	21.85
Hazard,	S. side, Purchase to Pleasant,	234.00	60.86
"	N. side, Purchase to Pleasant,	229.00	
Hillman,	S. side, Chestnut to Cottage,	205.00	67.23
"	N. side, Chestnut to Cottage,	210.00	
"	S. side, Cottage to Cedar,	276.00	66.65
"	N. side, Cottage to Cedar,	288.00	
Middle,	Both sides, Purchase to Pleasant,	425.20	42.78
Mill,	S. side, Purchase and Pleasant,	175.80	27.49
N. Oak,	E. side, north of Pope,	55.50	14.42
Orchard,	E. side, Grinnell and Dartmouth,	114.50	8.50
Parker,	N. E. and N. W. cor. Shawmut av.		11.31
Pleasant,	E. side, William to Mechanics l.,	132.00	43.96
"	W. side, William to Mechanics l.,	131.70	
"	W. side, across Mechanics lane,	20.40	5.06
"	E. side, Mechanics lane to Elm,	138.20	59.58
"	W. side, Mechanics lane to Elm,	142.20	
"	Both sides, Kempton to Mill,	271.20	59.97
"	E. side, Sycamore to Campbell,	409.00	74.58
"	W. side, Sycamore to Campbell,	377.40	
Purchase,	W. side, Weld and Clark,	225.80	25.38
"	W. side, Clark to Cedar Grove,	525.00	72.06
Second,	E. side, Griffin to Cannon,	552.00	141.91
"	W. side, Griffin to Cannon,	552.00	
"	Both sides, Cannon to Coffin,	567.50	73.67
"	E. side, Coffin to Madison,	263.00	61.20
"	W. side, Coffin to Madison,	272.00	
Spring,	N. side, Fourth to Fifth,	218.00	19.71
South,	S. side, Second to Acushnet av.,	204.00	58.91
"	N. side, Second to Acushnet av.,	201.00	
"	S. side, Acushnet av. to Fourth,	177.80	21.84

Gutters Relaid—*Concluded.*

Streets.	Between what Points.	Length. Feet.	Cost.
South,	N. side, Acushnet av. to Fourth,	174.80	$22.20
"	N. side, Fourth to County,	185.00	32.31
Sycamore,	S. side, Pleasant to State,	364.00	41.60
"	N. side, Pleasant to State,	398.00	37.71
"	S. side, State to Walden,	257.00	24.23
"	N. side, State to Walden,	172.70	25.87
"	S. side, Walden to Thomas,	157.80	10.82
"	N. side, Walden to Thomas,	161.00	11.88
Weld,	N. side, east of Bowditch,	160.00	25.76
"	S. side, across Pleasant (broad gutter,)	26.00	21.61
"	S. side, Pleasant to State,	229.00	40.37
William,	N. side, Sixth, west,	95.30	20.21
	Sundry small repairs,		48.08
			$1,790.14

TABLE No. 8.

Concrete Sidewalks—1891. New.

Streets.	Between what Points.	Square Yards.	Cost.
Acushnet av.,	E. side, Division and Delano,	89.61	$42.46
Allen,	N. side, Dartmouth to Cottage,	218.42	123.01
"	N. side, Cottage, west,	36.72	18.21
Campbell,	N. side, County and State,	218.11	114.52
Cottage,	W. side, Allen and Bedford,	123.40	61.16
"	E. side, Elm and Middle,	121.45	61.84
"	S. W. corner Kempton,	10.40	12.72
"	W. side, Kempton, north,	65.66	42.79
County,	W. side, north of Katharine,	52.46	43.25
Court,	N. side, Park and Lindsey,	467.16	303.59
Division,	N. side, Second and Acushnet av.	203.66	96.48
Elm,	N. side, Cottage, east,	29.05	14.79
Fourth,	E. side, School, south,	71.97	45.54
"	E. side, Grinnell and Wing,	102.59	66.50
Hazard,	S. side, Purchase and County,	547.11	296.37
Katharine,	N. side, County, west,	23.84	19.65
Kempton,	N. side, Cottage, west,	82.02	54.14
Merrimac,	S. side, Purchase, east,	77.10	34.68
Pleasant,	E. side, Mechanics lane, north,	29.94	20.71
Purchase,	E. side, south of Merrimac,	103.20	46.43
"	W. side, south of Hazard,	81.90	65.24
School,	S. side, east of Fourth,	44.07	27.89
"	S. side, Fourth and Fifth,	87.61	58.72
Second,	W. side, Division, north,	107.29	50.84
"	W. side, north of Elm,	93.74	49.68
Washington,	S. side, Fourth and County,	106.76	61.21
Weld,	N. side, west of Acushnet av.,	105.61	74.97
Willis,	N. side, east of Summer,	39.37	26.29
"	N. side, Cedar, east,	76.37	23.52
		3,416.59	$1,957.20

TABLE No. 9.

Concrete Sidewalks—1891. Relaid.

Streets.	Between what Points.	Square Yards.	Cost.
Acushnet av.,	W. side, Logan to Hicks,	32.61	$8.35
Allen,	S. side, County and Bonney,	264.36	85.49
Borden,	E. side, Allen and Bedford,	247.25	83.16
Bowditch,	E. side, Logan and Weld,	329.47	60.00
"	W. side, Logan and Weld,	286.24	52.14
Cottage,	E. side, Bedford, south,	76.25	36.75
County,	N. W. corner Rivet,	9.62	5.30
"	N. W. corner Thompson,	7.47	4.50
"	E. side, Thompson and Rockland,	259.71	72.74
"	E. side, Rockland and South,	248.71	63.60
"	W. side, Rockland and South,	281.29	68.91
"	E. side, Wing, south,	65.42	14.95
Court,	N. side, Cedar and Chancery,	23.33	7.17
Elm,	S. side, Cottage and Cedar,	283.04	134.95
Fifth,	E. side, Grinnell and Wing,	6.17	4.12
Fourth,	W. side, Rockland and South,	360.09	177.58
"	E. side, South and Grinnell,	117.87	36.34
"	W. side, Grinnell and Wing,	37.01	13.70
"	E. side, Spring and Union,	45.07	13.21
Front,	W. side, Logan and Hicks,	256.37	122 66
Grinnell,	N. side, Fourth and Fifth,	20.15	4.95
Kempton,	S. side, east of Cedar,	16.86	29.86
Kilburn,	S. side, east of Front,	213.10	60.35
Lincoln,	E. side, Arnold and Union,	19.50	10.56
Linden,	S. side, west of Purchase,	5.93	6.28
"	S. side, Purchase and County,	58.19	16.17
"	S. side, County and Ashland,	686.98	140.18
Logan,	N. side, Front and Acushnet av.,	427.30	142.40
"	S. side, Acushnet av., west,	200.23	66.06
"	N. side, Acushnet av. & Bowditch	124.15	41.40
"	N. side, Bowditch, west,	53.25	17.76
"	S. side, east of Purchase,	120.55	46.93
Middle,	N. side, Front and Water,	122.71	35.11
"	N. side, Second and Acushnet av.	114.41	27.24
"	N. side, Summer and Cottage,	48.87	28.33
"	S. side, Cottage and Cedar,	164.71	77.90
"	S. side, Cedar and Ash,	170.91	19.02
Pleasant,	E. side, Elm to Middle,	34.46	16.78
"	W. side, Elm to Middle,		
Purchase,	E. side, Pearl and Merrimac,	20.43	18.50
"	W. side, Franklin and Merrimac,	16.24	5.68
"	W. side, Hazard and Austin,	175.53	39.30
"	W. side, Austin, north,	28.32	18.30
"	E. side, Austin and Linden,	50.00	32.42
"	E. side, Logan and Weld,	88.36	25.37
Rivet,	N. side, Water and Acushnet av.,	532.88	99.52

CONCRETE SIDEWALKS RELAID—*Concluded.*

Streets.	Between what Points.	Square Yards.	Cost.
School,	N. side, Water and Front,	167.75	$106.24
Second,	W. side, Griffin and Cannon,	39.90	22.80
Sycamore,	S. side, Pleasant and State,	194.35	81.28
Wamsutta,	N. side, east of Purchase,	118.10	23.16
Water,	E. side, Potomska and South,	26.00	9.06
"	E. side, Grinnell and Howland,	436.07	76.86
"	E. side, Howland and Griffin,	148.76	32.15
"	E. side, Pine, north,	13.00	17.56
Wing,	N. side, Fourth and Sixth,	24.31	6.31
"	S. side, Sixth and County,	191.12	43.95
	Sundry small repairs,		72.24
		8,110.73	$2,583.60

TABLE No. 10.

Cinder Sidewalks Laid in 1891.

Streets.	Between what Points.	Length. Feet.	Cost.
Acushnet av.,	W. side, north of Delano,	420	$30.09
" "	E. side, Blackmer and Potomska,	739	11.33
* " "	W. side, Rivet and Potomska,		72.90
* " "	E. side, south of Washburn,		23.81
" "	E. side, Cedar Grove & Coggeshall,	520	41.58
" "	W. side, Sawyer and Coffin ave.,	442	12.85
* " "	W. side, Nash road, south,		43.86
* " "	W. side, Lund's corner, south,		203.32
* " "	E. and W. sides, Lund's cor., north,		66.09
* " "	E. side, at Clifford chapel,		9.58
*Allen,	N. side, Cottage and Dartmouth line, (blasting rock),		81.16
*Arnold,	N. side, County and Orchard,		52.92
* "	S. side, Tremont and Atlantic,		27.07
"	N. side, Park and Atlantic,	40	4.72
Ash,	E. side, North and Hillman,	140	12.63
* "	E. side, south of Sycamore,		33.04
Austin,	N. side, Ashland and Cedar,	520	59.46
Babbitt,	N. side, west of Dartmouth,	637	19.00
Blackburn,	W. side, north of Cedar Grove,	240	17.66
Blackmer,	S. side, Front and Water,	168	23.22
"	S. side, Water and First,	153	9.77
* "	N. side, Water and First,		6.22
*Bolton road,	South of Rivet,		18.39
Bonney,	E. side, Rivet and Thompson,	88	8.55
* "	E. side, Rockland and Washington,		10.58
* "	W. side, Rockland and Washington,	580	65.53
*Borden,	N. side, west of Dartmouth,		6.22
Brownell,	E. side, south of Union,	305	28.34
"	E. side, Union, north,	133	22.52
Bullock,	E. side, Austin and Durfee,	552	57.26
Campbell,	S. side, Cedar and Shawmut av.,	450	42.76
*Cedar,	E. side, north of Middle,		5.14
* "	E. side, Parker and Locust,		24.52
* "	W. side, Parker and Locust,		6.49
"	W. side, Willis and Parker,	300	22.30
"	E. side, Austin and Durfee,	548	52.19
"	W. side, Austin and Collins,	247	25.33
Cedar Grove,	S. side, Front and Howard,	90	10.00
" "	N. side, Front and Howard,	98	10.80
" "	N. side, west of County,	221	23.90
Chancery,	W. side, Arnold and Union,	410	17.77
"	W. side, Union and Court,	289	9.29
Chestnut,	W. side, Parker and Locust,	339	19.47
"	E. side, south of Pope,	150	5.25
Clark,	N. side, east of County,	108	6.04

*Sidewalks graded.

Cinder Sidewalks—*Continued.*

Streets.	Between what Points.	Length. Feet.	Cost.
Clark,	S. side, east of Reynolds,	97	$13.92
*Clinton,	S. side, Cottage and Ash,		31.53
Coffin ave.,	S. side, east of Acushnet ave.,	905	21.64
" "	N. side, east of Acushnet ave.,	700	74.49
" "	S. side, west of Acushnet ave.,	467	16.58
" "	N. side, west of Acushnet ave.,	165	36.16
" "	N. side, east of Purchase,	60	6.66
Coggeshall,	N. side, east of Rock,	650	16.55
"	N. side, Acushnet ave. and Rock,		113.96
"	S. side, Howard and Acushnet av.,	250	5.02
"	N. side, west of County,	330	5.22
Collins,	N. side, east of Cedar,	279	15.11
*Cottage,	E. side, south of Kempton,		8.26
* "	W. side, Middle and Kempton,		30.33
"	W. side, Elm and Kempton,	419	18.16
"	E. side, Campbell and Willis,	189	4.29
"	E. side, south of Robeson,	308	13.28
*County,	E. side, Division and Delano,		8.92
* "	E. side, Rivet and Thompson,		12.08
"	W. side, Linden and Weld,	210	15.29
"	E. side, Weld and Clark,	438	35.38
"	E. side, Clark and Penniman,	123	14.05
"	E. side, Penniman & Cedar Grove,	268	44.74
"	E. side, Cedar Grove, north,	380	69.37
"	E. side, north of Coggeshall,	500	17.76
*Court,	N. side, Park and Tremont,	710	25.82
*Dartmouth,	W. side, south of Rockland,		21.05
* "	E. side, Fair and Grinnell,		13.86
Deane,	S. side, east of Acushnet av.,	375	41.63
"	N. side, east of Acushnet av.,		5.61
Delano,	Both sides, Water and First,	156	12.69
Division,	N. side, Water and Second,	81	5.38
"	S. side, Second and County,	181	22.50
"	S. side, County and Crapo,	515	42.26
Durfee,	S. side, west of Acorn,	416	46.07
* "	Both sides, Bullock & Shawmut av.		18.00
Elm,	N. side, Newton, west,	86	7.96
"	S. side, east of Reed,	517	37.70
"	N. side, east of Reed,	711	34.68
Emerson,	W. side, Arnold and Union,	132	5.18
First,	E. side, Division and Delano,	274	26.02
"	E. side, Blackmer and Potomska,	774	77.63
"	W. side, Blackmer and Potomska,	771	44.64
"	W. side, Potomska and South,	172	18.74
"	W. side, Grinnell and Howland,	305	16.51
*Fourth,	W. side, Thompson and Rockland,		51.64
"	E. side, Rockland and South,	72	57.25
Florence,	E. side, at Court,	148	10.74
* "	W. side, north of Kempton,		9.75

*Sidewalks graded.

Cinder Sidewalks—*Continued.*

Streets.	Between what Points.	Length. Feet.	Cost.
Front,	W. side, north of Potomska,	80	$7.92
"	E. side, Grinnell and Howland,	146	5.70
"	W. side, Grinnell and Howland,	530	17.97
"	W. side, Hicks and Washburn,	178	5.58
"	W. side, Washburn & Cedar Grove,	409	30.55
"	W. side, Cedar Grove & Coggeshall,	411	31.86
"	E. side, north of Coggeshall,	58	7.75
Fruit,	N. side, Juniper and Dartmouth,	680	76.11
*Grinnell,	S. side, Orchard and Dartmouth,		13.82
Hall,	E. side, Thompson and Rockland,	366	15.56
"	W. side, Thompson and Rockland,	256	28.85
*Harrison,	W. side, Oak and Hickory,		11.61
Hicks,	N. side, Front and Acushnet av.,	310	58.97
*Hillman,	S. side, Cedar and Ash,		16.97
* "	N. side, Cedar and Ash,		31.60
"	S. side, west of Park,	161	29.51
Hunter,	E. side, north of Kempton,	169	20.33
"	W. side, north of Kempton,	410	60.24
Juniper,	E. side, Rivet and Fruit,	100	14.69
Katharine,	S. side, County and Crapo,	324	10.16
"	N. side, County and Crapo,	247	38.04
*Kempton,	N. side, Chestnut and Cottage,		10.24
* "	N. side, Ash and Chancery,		30.70
"	S. side, west of Rockdale av.,	675	34.84
Locust,	S. side, west of Cedar,	236	29.75
"	N. side, Cedar and Richmond,	236	9.50
* "	N. side, east of Shawmut av.,		15.12
*Madison,	S. side, Sixth and Seventh,		24.27
*Main,	N. side, Acushnet av., east,		48.83
Marvin,	S. side, east of Acushnet ave.,	266	9.41
Merrimac,	N. side, Pleasant and State,		7.90
Middle Pt. rd.	E. side, south of McGurk street,	997	84.16
Mill,	N. side, Chancery and Park,		6.02
"	N. side, Park and Newton,	233	11.12
Mitchell,	W. side, Coggeshall and Sawyer,	210	29.97
Mt. Vernon,	N. side, east of Shawmut ave.,	228	21.84
Nelson,	S. side, County and Crapo,	135	19.68
Newton,	E. side, Elm and Kempton,	540	32.66
* "	W. side, Elm and Kempton,		18.87
*North,	S. side, Second and Acushnet av.,		11.11
"	N. side, east of Park,	182	23.68
*Orchard,	E. side, south of Dartmouth,		56.56
Palmer,	W. side, Union and Court,	228	31.48
Park,	W. side, Union and Arnold,	578	26.50
* "	E. side, Court and Kempton,		16.01
* "	W. side, Court and Kempton,		69.83
"	E. side, Kempton and North,	258	22.06
"	W. side, Kempton and North,	370	26.68
"	E. side, north of North,	90	12.48
"	W. side, North and Hillman,	261	17.94
Pearl,	N. side, east of Acushnet ave.,	97	5.49

*Sidewalks graded.

Cinder Sidewalks—*Concluded.*

Streets.	Between what Points.	Length. Feet.	Cost.
Penniman,	Both sides, Purchase and State,	355	$24.62
"	S. side, State and County,	117	10.77
"	N. side, State and County,	146	15.49
*Pine,	N. side, east of Water,		6.13
Pleasant,	E. side, Mechanics lane and Elm,		5.51
*Pope,	N. side, Purchase and Pleasant,		4.88
"	S. side, County and Chestnut,	715	52.40
"	N. side, County and Chestnut,		66.60
*Potomska,	S. side, Water and Second,		7.20
"	S. side, First and Second,	215	24.09
Prospect,	W. side, Grinnell and Howland,	441	19.91
Reynolds,	E. side, Linden and Weld,	351	5.05
Richmond,	W. side, north of Parker,	148	6.03
*Rivet,	S. side, east of County,		28.66
"	N. side, County and Crapo,	738	78.87
"	N. side, Bonney and Bolton road,	676	62.90
"	S. side, east of Dartmouth,	95	10.24
Rock,	E. side, Coggeshall and Sawyer,	650	61.32
"	W. side, Coggeshall and Sawyer,	338	29.15
*Rockland,	S. side, Acushnet ave. and Fourth,		8.50
"	S. side, Fourth and County,		15.15
Sawyer,	S. side, east of Rock,	800	83.52
"	N. side, Rock and Acushnet ave.,	850	52.53
Second,	E. side, Rivet and Potomska,	509	27.50
*Shawmut av.,	W. side, Smith, north,		44.16
" "	E. side, south of Durfee,	299	7.87
" "	W. side, south of Durfee,	516	43.16
Sisson,	E. side, Union and Court,	265	7.45
"	W. side, Union and Court,	135	27.16
*Smith,	N. side, Walden and County,		12.55
"	S. side, Spruce and Cedar,	65	5.43
State,	E. side, Linden and Weld,	487	33.23
"	W. side, Weld and Cedar Grove,	400	19.23
*Sycamore,	S. side, Cedar and Ash,		30.80
Thompson,	S. side, Fourth and County,	135	24.70
"	N. side, Fourth and County,	233	29.70
Union,	S. side, Brownell and Sisson,	126	27.44
*Ward,	W. side, north of Allen,		18.80
Welcome,	S. side, east of W. French ave.,	108	15.32
*Weld,	N. side, Bowditch, east,		12.39
* "	S. side, Pleasant and State,		25.25
"	S. side, State and County,	208	6.88
"	N. side, State and County,	208	14.58
"	N. side, east of Mt. Pleasant,	257	32.10
*Willis,	N. side, Cottage and Cedar,		5.30
Willow,	N. side, east of Cedar,	470	12.67
Winsor,	S. side, County and Crapo,	127	12.69
"	N. side, County and Crapo,	70	5.88
	Sundry small repairs,		137.36
		43,969	$5,380.59

*Sidewalks graded.

TABLE No. 11. PAVING, NEW—1891.

STREETS.	LOCATION.	BLOCK.			COBBLE.			COST.
		Length. Feet.	Width Feet.	Square Yards.	Length. Feet.	Width. Feet.	Square Yards.	
Acushnet ave.,	Square at South,				32.0	31.3	111.3	$85.14
" "	Square at William,	29.4	16	52.3				2,149.57
" "	William to Elm,	298.0	24.3	820.0				
Allen,	N. side, Bonney to Dartmouth,				51.0	14.5	82.2	60.20
Austin,	S. side, Purchase to County, (sidewalk),						705.9	399.90
Bedford,	S. side, Sixth to County,				340.	9.7	366.4	173.70
Bethel,	William to Elm, (six driveways),				305.0	23.9	877.7	583 38
Cedar,	E. side, Austin to Durfee, (one driveway),				400.0	9.5	451.3	459.77
"	W. side, Austin to Durfee, (one driveway),				579.4	9.4	612.9	
County,	Square at Hillman,				29.3	35.5	115.6	76.40
Dartmouth,	Square at Cottage,				84.	13.6	187.9	98.74
					56.	9.8		
Fourth,	W. side, Potomska and Grinnell,				1,078.1	11.0	1,317.7	522 55
"	Square at Grinnell, (west of car tracks),				20.5	9.5	21.6	
"	E. side, Grinnell and Wing,				127.0	5.0	547.7	393 53
					431.0	9.5		
"	W. side, Grinnell and Wing,				100.0	5.0	487.2	
					409.0	9.5		
Gifford,	Water, east, (four driveways),				308 0	24.0	831.5	524.05
Middle,	Square at Cottage,				29.0	24.0	77.3	83.06
Mill,	West of Purchase,				39.0	24.2	104.9	46.92
"	Square at Pleasant,				28.5	28.0	88.7	61.00
Pearl,	N side, west of Acushnet avenue,	52.0	7.8	45.0				102 47
Pleasant,	North of crosswalk at William,				27.0	6.0	18.0	13.40
"	South of crosswalk at William,				23.0	6.0	15.0	11.25
Second,	Union to William,	374.0	19.0	789.6				2,068.24
"	Union to William, (between car tracks),	409.0	4.3	195.4				170.19
William,	W. line Acushnet ave. to W. line Purchase,			444.3				1,100.07
"	" " " " (between car tracks),			109.4				98.92
"	W. line Purchase to W. line Pleasant,			667.4				1,799.79
"	" " " " (between car tracks),			105.3				260.14
"	Square at Sixth,			142.0				218 74
"	Square at Sixth, (between car tracks),			23.4				77.05
		1,162.4		3,394.1	4,196.8		7,620.8	$11,639.17

TABLE No. 12.

Paving Repaired—1891.

Streets.	Location.	Block.			Cobble.			Cost.
		Length Feet.	Width. Feet.	Square Yards.	Length. Feet.	Width. Feet.	Square Yards.	
Acushnet av.,	Square at Bedford,						78.1	$24.37
" "	W. side, Bedford to Russell,				317.0	9.3	327.6	68.62
" "	W. side, Russell to Madison,				975.2	9.1	997.4	162.21
" "	School to Spring,							42.61
" "	Union to William,							6.45
" "	William to Elm,	298.0	24.3	820.0				278.70
" "	Square at Elm,				29.5	30.0	98.3	238.80
" "	Elm to Middle,				183.0	24.4	496.1	
" "	Square at Middle,				29.8	29.5	97.6	
" "	Middle to High,				217.3	24.0	579.4	248.83
" "	Square at High,				28.5	29.7	94.0	
" "	High to Kempton,				126.0	24.0	336.0	164.18
" "	Kempton to Mill,				137.5	24.0	366.6	138.91
Ash,	N. E. corner Union,				19.0	5.3	11.1	6.45
Campbell,	Square at Pleasant,				28.9	29.0	93.1	39.12
Cedar,	S. E. corner Kempton,							7.43
Cannon,	N. W. corner Water,							7.70
Chancery,	At Kempton,							6.00
County,	North of Hillman,				29.5	6.0	19.7	11.14
Elm,	Purchase and Pleasant,				21.5	24.0	57.3	11.13
"	Pleasant and Sixth,				24.0	24.0	64.0	11.82
Hazard,	Purchase and Pleasant,							5.16
Hillman,	Square at Cedar,				41.3	21.0	96.5	34.70
Kempton,	Square at Cottage,				34.0	27.0	102.0	44.01
"	Square at Cedar,							15.96

Kempton,	Ash and Rockdale avenue,						146.00
Lincoln,	Square at Arnold,					17.3	5.08
Linden,	Square at County,					435.9	152.92
"	County to Ashland,						9.67
Madison,	Square at Second,			23.6	23.6	61.9	116.15
Middle,	West of Acushnet avenue,			24.0	5.4	14.4	7.59
"	East of Purchase,			21.0	4.7	10.9	6.43
"	Square at Pleasant,			39.0	29.0	125.6	56.20
Pleasant,	Square at Elm,			39.0	29.5	127.8	72.18
Purchase,	North to Hillman,						20.80
"	Hillman to Maxfield,						44.12
"	Pearl to Linden,						684.58
School,	Front to Water,			244.5	24.1	654.7	223.74
"	Water to First,						8.56
"	Acushnet avenue and Fourth,						29.79
Second,	Square at Cannon,			30.7	29.0	98.9	25.71
Sixth,	W. side, William, north,			141.4	8.3	130.6	48.55
Spring,	Square at Fourth, (west of car tracks,)			30.0	12.3	41.0	22.28
Union,	Acushnet avenue to Purchase,						7.44
Water,	Gifford to Potomska,						72.26
"	Potomska to South,			467.0	23.9	1,240.0	350.20
"	South to Grinnell,			347.5	23.9	922.8	246.92
"	Leonard and Cannon,			370.0 40.0	24.0 3.3	986.6 14.7	362.57
"	Cannon to Madison,			560.0	24.0	1,494.3	464.52
"	Walnut to School,						17.26
"	Foot of Hillman,					323.3	173.77
Weld,	S. side, east of Bowditch,			239.6	4.5	119.8	15.96
"	S. side, west of Bowditch,			152.3	6.3	106.7	19.66
William,	Square at Pleasant, (north of car tracks),						5.75
	Sundry small repairs,						324.76
							$5,315.72

TABLE No. 13.

Flagging Repaired—1891.

Streets.	Between what Points.	New Sq. Yds.	Old Sq. Yds.	Cost.
Acushnet av.,	E. side, South and Grinnell,		121.4	$201.38
" "	W. side, South and Grinnell,	100.7	3.3	
" "	E. side, Grinnell and Howland,		240.7	99.99
" "	E. side, William to Elm,	89.2	69.2	123.52
" "	W. side, William to Elm,	8.4	53.0	
Allen,	N. side, east of Cottage,	6.0		10.89
Arnold,	S. side, east of Atlantic,	8.4	13.0	17.71
"	S. side, Atlantic and Tremont,		105.3	39.25
Bedford,	S. side, Sixth and County,	14.5	141.1	66.28
Bethel,	W. side, William and Elm,	2.7	29.5	20.45
Campbell,	S. W. corner Pleasant,	4.0		10.37
Elm,	N. side, Second, east,			10.74
Fifth,	W. side, Russell and Madison,		66.6	53.45
"	E. side, Walnut, south,	25.3	21.6	52.11
Fourth,	W. side, School, south,	50.4	17.3	138.85
"	W. side, School and Spring, (including paving on sides of walk),	25.3	35.2	84.00
"	W. side, Union, south,	17.9	13.3	51.33
Maxfield,	S. side, east of Pleasant, (including paving on sides of walk),	3.8	21.7	6.85
Merrimac,	N. side, Pleasant and County, (including paving on sides of walk),	48.6	271.4	166.76
Middle,	N. side, west of Purchase,		55.6	26.50
Mill,	S. side, west of Pleasant,	17.7		29.27
N. Oak,	E. side, north of Pope,		17.1	5.65
Pleasant,	E. side, Mechanics lane to Elm, (including paving on sides of walk),	61.4	4.8	115.74
"	W. side, Mechanics lane to Elm, (including paving on sides of walk),	16.6	46.7	42.66
"	W. side, south of Mill,	11.5		18.15

Pleasant,	S. E. corner Hillman,		19.8	10.00
"	E. side, south of Maxfield,	3.8	21.7	13.47
"	W. side, south of Market,			23.35
Purchase,	W. side, William, south,		99.3	10.75
Sixth,	E. side, School and Spring,		58.0	42.36
"	W. side, School and Spring,	1.1	157.8	
"	E. side, Union and Market,	62.9	21.7	136.77
"	W. side, William, north,	63.5	23.8	159.54
South,	N. side, Fourth and County,		86.1	32.02
Spring,	N. W. corner Fourth,		35.0	18.64
Sycamore,	N. side, Pleasant and State,	24.6	154.5	145.61
"	N. side, State and Walden,	31.1	46.1	101.23
"	N. side, Walden and Thomas,	68.7	10.1	116.57
"	S. side, State and Walden, (including paving on sides of walk),	13.8	79.5	59.09
Union,	N. side, Sixth and Eighth,	12.8	122.7	38.84
Water,	W. side, Rivet and Potomska,	4.6		7.01
"	E. side, north of Pine,		29.4	8.79
Weld,	N. side, east of Bowditch,		36.5	6.61
William,	N. side, Pleasant, west,		48.0	20.01
"	S. side, Sixth, west,			45.47
"	N. side, Sixth, west,	82.5	7.1	185.98
	Sundry small repairs,			593.55
				$3,167.56

TABLE No. 14.

Crosswalks, New—1891.

Streets.	Location.	Stone. Length. Feet.	Concrete. Sq. Yds.	Cost.	Description.
Acushnet av.,	E. side, across Coggeshall,	57.7		$48.22	Two lines.
Allen,	N. side, across Ward,	47.5		41.72	" "
"	N. side, across Cottage,		25.55	21.87	
Bedford,	S. side, across County,		34.71	35.11	
Campbell,	N. side, across Pleasant,	44.8		34.04	Two lines.
Cannon,	N. side, across Water,	45.7		31.40	" "
Cedar,	W. side, across Austin,	48.5		32.31	" "
Chestnut,	W. side, across Hillman,		26.31	21.52	
Cottage,	N. side, across Dartmouth,		25.47	13.33	
"	E. side, across Middle,		24.31	19.28	
"	W. side, across Middle,		23.42	18.57	
"	W. side, across Hillman,		25.11	21.47	
County,	E. side, across Wing,		30.80	26.71	
"	W. side, across Allen,		34.22	31.48	
"	W. side, across Arnold,		27.00	27.48	
Dartmouth,	W. side, at Cemetery gate,	26.0		34.18	Two lines.
"	E. side, across Grinnell,		23.07	12.07	
"	W. side, across Cottage,		22.93	12.00	
Elm,	S. side, across Bethel,	45.2		33.14	Two lines.
Fourth,	W. side, across South,		22.71	31.56	
"	W. side, across Spring,	44.7		34.51	Two lines.
Gifford,	300 feet east of Water,	43.9		31.33	" "
Grinnell,	S. side, across Water,	47.2		38.26	" "

Grinnell,	S. side, across Dartmouth,		25.64	13.42	
Madison,	S. side, across Second,		23.55	16.37	
"	N. side, across Second,		24.18	16.81	
Mill,	S. side, across Pleasant,	47.8		36.20	Two lines.
Pleasant,	W. side, across Elm,	43.3		42.71	" "
"	E. side, across Middle,	47.6		32.06	" "
Purchase,	E. side, across William,	59.5		48.78	Three lines.
"	W. side, across William,	81.6		55.22	" "
"	W. side, across Mill,	46.3		37.84	Two lines.
"	E. side, between Franklin and Merrimac, (driveway),	25.0		14.75	" "
"	W. side, across Cedar Grove,	49.4		34.17	" "
Rivet,	N. side, across Bolton road,	59.0		42.42	" "
Rockland,	S. side, across Fourth, (west of car tracks),	17.6		11.83	" "
"	N. side, across Fourth, (west of car tracks),	17.0		12.66	" "
Second,	E. side, across Coffin,		25.33	29.96	
"	E. side, across Madison,		23.82	16.55	
"	W. side, across Madison,		23.92	16.63	
Shawmut av.,	W. side, across Campbell,	46.0		44.12	Two lines.
Spring,	N. side, across Fourth, (west of car tracks),	16.6		14.05	" "
State,	E. side, across Sycamore,		21.38	21.30	
"	W. side, across Sycamore,		19.30	21.58	
Sycamore,	S. side, across State,		24.31	24.20	
"	N. side, across State,		26.31	26.18	
"	N. side, across Walden,		22.84	26.70	
Union,	N. side, across Second,	66.2		42.39	Three lines.
Walden,	W. side, across Sycamore,		25.80	30.76	
Water,	E. side, across Gifford,	48.7		35.89	Two lines.
"	E. side, north of Pine,	22.5		19.19	" "
William,	S. side, across Second,	71.9		44.56	Three lines.
"	N. side, across Acushnet avenue,	66.3		61.87	" "
"	S. side, across Purchase,	75.8		61.84	" "
"	N. side, across Purchase,	50.3		41.23	" "
"	S. side, across County,		27.95	27.29	

Crosswalks, New—*Concluded.*

Streets.	Location.	Stone. Length. Feet.	Concrete. Sq. Yds.	Cost.	Description.
Willis,	S. side, across Cottage,		25.55	$31.01	
Wing,	S. side, across Acushnet avenue,		21.00	25.26	
"	N. side, across County,		28.88	33.53	
		1,409.6	735.37	$1,762.89	

TABLE No. 15.

Crosswalks Repaired—1891.

Streets.	Between what Points.	Stone. Length Feet.	Concrete. Sq. Yds.	Cost.	Description.
Acushnet av.,	W. side, across South,	45.2		$11.80	Two lines.
" "	E. side, across South,	23.0		6.00	One line.
" "	E. side, across Grinnell,	44.5		8.78	Two lines.
" "	E. side, across Howland,	33.4		10.50	" "
" "	W. side, across Wing,	43.0		19.39	" "
" "	W. side, across High,	44.5		4.50	" "
" "	W. side, across Kempton,	37.0		5.05	" "
Arnold,	S. side, across Atlantic,	47.5		21.11	" "
"	N. side, across Ocean,	50.8		18.92	" "
Ashland,	W. side, across Austin,	46.5		8.51	" "
Bedford,	S. side, across Acushnet avenue,	43.0		4.95	" "
Campbell,	S. side, across Pleasant,	44.5		9.25	" "
Cedar,	E. side, across Hillman,	45.8		17.95	" "
County,	W. side, across Hillman,	46.7		4.75	" "
Elm,	N. side, between Purchase and Pleasant, (driveway),			5.86	" "
"	S. side, across Pleasant,	64.0		14.81	" "
Fourth,	W. side, across Rockland,	44.1		16.35	" "
Hillman,	S. side, across County,	57.2		6.33	" "
Kempton,	N. side, across Cottage,	45.7		32.40	" "
Leonard,	N. side, across Water,	45.7		19.56	" "
Middle,	N. side, across Acushnet avenue,	47.0		6.00	" "
"	S. side, across Pleasant,	60.7		8.55	" "
"	N. side, across Pleasant,	61.0		9.75	" "
"	S. side, across Cottage,	48.4		5.80	" "
"	N. side, across Cottage,	44.9		5.80	" "

Crosswalks Repaired—*Concluded.*

Streets.	Between what Points.	Stone. Length Feet.	Concrete. Sq. Yds.	Cost.	Description.
Mill,	N. side, across Pleasant,	25.0		$12.72	Two lines.
Pleasant,	E. side, across Mechanics lane,	37.0		7.91	" "
"	E. side, across Elm,	46.0		9.25	" "
"	E. side, across Mill,	46.4		13.20	" "
"	W. side, across Mill,	24.5		19.00	One line.
"	E. side, across Campbell,	45.0		7.50	Two lines.
Purchase,	W. side, across Penniman,	50.4		5.20	" "
Rivet,	N. side, across County,		4.8	4.70	
Second,	W. side, between Union and William,	28.0		12.10	Two lines.
South,	S. side, across Acushnet avenue,	22.4		5.85	One line.
"	N. side, across Acushnet avenue,	47.0		12.28	Two lines.
Union,	S. side, across Second,	46.7		13.83	" "
William,	N. side, across Pleasant,	92.5		19.67	Three lines.
"	Four crosswalks at Sixth,			76.67	
	Sundry small repairs,			40.17	
				$542.72	

TABLE No. 16.

Bank Walls Built—1891.

Streets.	Between what Points.	Length. Feet.	Av. Height.	Cost.
Bowditch,	E. side, Coggeshall and Sawyer,	289.00	3.30	$138.03
Davis,	S. side, Acushnet avenue, east,	323.00	3.25	92.23
Rivet,	N. side, Crapo and Bonney,	164.00	1.57	28.15
Rock,	E. side, Sawyer and Phillips avenue,	241.50	3.66	454.30
Walden,	E. side, Sycamore and Smith,	96.70	1.00	25.58
		1,114.20		$738.29

MISCELLANEOUS.

Cleaning streets,	$7,808.37	
Credit by filling sundry streets,	2,022.14	$5,786.23
Removing snow and ice,		342.08
Sanding sidewalks,		90.79
Picking up small stones,		269.11
Carting stock to City Stable yard,		253.28
Carpenter shop,		286.95
Trimming trees,		534.18
Labor, City Stable yard,		114.40
Tool-houses repaired,		39.39
Filling holes in streets,		511.55
Tools, new and repaired,		525.74
Oil,		81.53
Car tickets,		15.00
Hack hire,		88.00
Repairing scales,		88.26
Janitor,		76.66
One-half stable office expenses, including salaries,		613.37
One-third of main office expenses, including salaries,		2,010.24
Stock, labor and teaming to fill City Stable lot,		723.10
Renewals for stone crushers,		183.50
Fence moved and repaired, Davis street, north side, between Acushnet avenue and Rock street,		22.15
Repaired fence, Rock St., east side, from Coggeshall St. north,		22.32
One 2¾ inch rock drill, boiler, drills, etc.,		600.00
One centrifugal steam pump,		575.00
Moving house from line of Myrtle street and fitting it up,		850.06
Street scraper repaired,		16.96
Pumps repaired,		18.41
Moving wall to street line, north side Davis street,		73.50
Sundry small repairs on wheelbarrows, fences, etc.,		74.77
Sundry bills, wharfage, freight, telephone, etc.,		284.74
Repairing one horse stone roller,		12.98
Stock, labor and teaming, general sewers,	$8,540.02	
" " to sundry sewers,	4,216.62	
" " engineering dep't,	2,130.22	
" " public works, permt. impts.,	2,012.89	
" " N. B. & F. bridge,	4,682.46	
" " poor department,	383.23	
" " N. B. water works,	352.56	

Stock, labor and teaming, to cemeteries,		$416.71	
"	"	school department,	519.57	
"	"	public property,	103.57	
"	"	parks and squares,	43.48	
"	"	sundry parties,	4,650.27	28,051.60
Stock on hand, Jan 1st,				5,909.07
Miscellaneous items,				312.00
				$49,456.92

RECAPITULATION. STREET DEPARTMENT.

Macadam, new,	$15,285.90
Macadam, repaired,	7,217.41
Streets graveled and graded,	26,943.00
Curbing, new,	12,047.44
Curbing, relaid,	1,006.91
Gutters, new,	5,123.92
Gutters, relaid,	1,790.14
Concrete sidewalks, new,	1,957.20
Concrete sidewalks, repaired,	2,583.60
Cinder sidewalks,	5,280.59
Paving, new,	11,639.17
Paving, repaired,	5,315.72
Flagging, repaired,	3,167.56
Crosswalks, new,	1,762.89
Crosswalks, repaired,	542.72
Bank walls,	738.29
Accounts not included in making up tables,	49,456.92
	$151,859.38

CREDITS.

Appropriation,	$85,000.00
Special appropriation,	25,000.00
Received for stock, labor and teaming,	35,928.74
Stock on hand, Jan. 1st, 1891,	6,013.63
	151,942.37
Expended,	151,859.38
Transfer to balance,	$82.99

STREET DEPARTMENT.

INVENTORY OF PROPERTY, STABLE AND TOOL HOUSES, JANUARY 1st, 1892.

34 horses,	$6,120.00
9 double carts,	1,900.00
10 single carts,	1,400.00
1 double low gear,	150.00
1 gear with derrick,	175.00
1 single gear,	70.00
1 single lumber wagon,	65.00
2 express wagons,	125.00
2 light wagons,	175.00
1 buggy,	50.00
13 double harnesses,	585.00
11 single harnesses,	275.00
5 steel horse collars,	20.00
11 feed baskets,	6.00
15 stable pails,	12.00
10 tons hay,	200.00
1 ton straw,	15.00
100 bushels grain,	75.00
8 carriage robes,	30.00
32 horse blankets,	35.00
11 six-tined forks,	10.00
17 hay forks,	10.00
1 hay knife,	1.00
3 wheel jacks,	3.00
38 hitch halters,	20.00
2 wagon wrenches,	2.00
5 monkey wrenches,	5.00
1 sleigh,	30.00
2 ash sleds,	200.00
1 harrow,	40.00
4 stone drags,	12.00
8 new plow points,	40.00
1 two-horse dirt scoop,	9.00
1 road scraper,	10.00
1 street sweeper,	175.00
1 water cart,	200.00
1 iron road roller,	300.00
1 wheel derrick,	30.00
1 stone road roller,	100.00

30 gallons sperm oil,	$22.00
1 bushel basket,	.60
1 wash-tub,	.75
5 small pigs,	15.00
1 water tank,	5.00
1 riding saddle,	2.00
1 express harness,	16.00
22 mane brushes,	7.50
25 horse brushes,	43.00
25 curry combs,	6.50
1 set horse slings,	20.00
12 oil squirters,	6.00
1 ten gallon oil can,	1.25
8 one gallon oil cans,	4.00
1 belt punch,	.90
150 feet garden hose,	30.00
4 tool houses,	150.00
4 tool boxes,	20.00
20 sledges,	60.00
47 iron bars,	75.00
3 pinch bars,	6.00
11 stone breaking hammers,	5.50
8 striking hammers,	8.00
17 drilling hammers,	20.00
89 blow drills,	265.00
95 hand drills,	24.00
6 blasting spoons,	4.50
22 stone chisels,	11.00
11 stone sets,	7.25
24 stone points,	12.00
5 spirit levels,	10.00
4 iron squares,	4.70
14 stone chains,	28.00
8 trowels,	4.00
17 paving hammers,	34.00
11 paving pounders,	33.00
24 paving brooms,	14.30
36 new R. P. L. H. shovels,	27.00
11 S. P. L. H. shovels,	8.25
1 gallon measure,	.60
200 lbs. cut nails,	10.00
128 R. P. S. H. shovels,	96.00
46 S. P. S. H. shovels,	23.00
1 road plow,	30.00
2 long-handle scoop shovels,	1.50

27 short-handle scoop shovels,	$20.25
1 tool box on wheels,	5.00
75 hoes,	18.75
100 pick-axes,	150.00
27 mattocks,	40.50
2 bill-hooks,	2.00
6 scythes and snaths,	10.00
39 iron rakes,	19.50
15 dirt-pounders,	7.50
4 flag-tampers,	3.00
8 cross-cut saws,	26.00
5 hand saws,	2.00
8 narrow axes,	6.00
1 saw-horse,	.75
3 brick cleaners,	2.25
1 hydrant wrench,	.75
3 screw drivers,	.50
1 large hay cutter,	34.84
2 spades,	1.50
2 wooden wheelbarrows,	2.00
7 iron wheelbarrows,	31.50
44 lanterns,	23.00
48 lantern globes,	3.84
17 street horses,	8.50
4 water pails, good, } 14 water pails, old, }	2.70
3 ladders,	4.50
2 snow-plows,	10.00
46 wooden snow-shovels,	13.80
38 iron snow-shovels,	34.00
9 ice spades,	4.50
2 sand screens,	10.00
6 stoves and pipes,	48.00
5 chocking hammers,	3.75
5 warning signs,	2.50
3 manure rakes,	1.50
1 wrench for plow,	.25
1 set runners of lumber wagons,	9.00
4 drinking dippers,	.80
10 lantern hooks,	1.00
1 set large blocks and falls,	5.00
1 pair barrel skids,	3.00
6 wire window screens,	6.00
2 wire door screens,	6.00
1 set small blocks,	1.00

2 sets large Fairbank scales,	$250.00
5 sickles,	2.50
2 stone-reamers,	1.00
3 long handle scrapers,	1.50
6 lbs. backing and wedges,	.90
2 branding irons,	2.00
5 large eveners,	5.00
60 gallons kerosene oil,	6.00
2 barrels axle oil,	84.00
75 lbs. old rope,	3.00
2 sets small blocks and falls,	12.00
2 sets double lead harnesses,	70.00
1 set single lead harnesses,	15.00
4 sets light harnesses,	53.40
8 tree trimming ropes,	20.00
9 large steel wedges,	6.75
3 tunnels,	.45
1 bit stock and bit,	1.50
250 tons dressing,	375.00
2 two quart tin dippers,	.50
1 marlin spike,	.50
125 lbs. canvas,	5.00
4 whiffletrees,	8.00
2 large blocks,	2.00
2 small blocks,	1.50
1 old iron wheelbarrow,	2.00
2 old wooden wheelbarrows,	3.00
7 tape measures,	7.00
3 long straight edges,	1.50
1 short straight edge,	.50
1 cabinet for books,	10.00
1 bureau,	3.00
5 chairs,	5.00
2 feather dusters,	1.00
5 new brooms,	2.50
1 water pot,	.25
1 large table,	5.00
53 tons pounding gravel,	39.75
23 square feet new flagging,	3.70
66 square feet old flagging,	6.60
231 feet old crosswalk,	69.30
76 feet new crosswalk,	43.32
1 set chain traces,	5.00
7 tons cobble paving for gutters,	7.00
6,771 paving blocks,	338.55

265 feet new curbing,	$143.10	
92 feet curbing corners,	49.68	
800 tons of crushed stone in pocket,	720.00	
200 tons of stone crushed fine,	225.00	
400 tons stone screenings,	400.00	
350 tons crusher stone,	140.00	
50 tons beach sand,	37.50	
11 tons cobble paving for streets,	13.75	
90 feet old curbing,	18.00	
25 feet old curbing corners,	5.00	
57 feet blue crosswalk stone,	11.40	
1 2¾ inch rock drill, boiler, etc.,	600.00	
1 centrifugal steam pump,	575.00	$18,860.23

ROLLER HOUSE.

1 lathe and counter-shaft,	$130.00	
1 fifteen inch chuck, 5 hangers, 18 feet shafting, 4 pulleys,	25.00	
100 feet leather belting, 2½ inch,	25.00	
22 feet leather belting, 2 inch,	4.40	
15 lbs. lathe tools,	3.00	
1 No. 2 Stetson chuck,	5.00	
1 bench vise,	3.00	
1 hydraulic jack,	45.00	
2 screw jacks,	8.00	
8 twist drills, ½ inch to $\frac{15}{16}$ inch,	7.50	
1 18 inch Stilson wrench,	2.50	
1 10 inch Stilson wrench,	2.50	
1 18 inch monkey wrench,	3.00	
16 files and handles,	3.00	
24 sheets emery paper,	.24	
1 pair nippers,	1.00	
1 12 inch iron square,	1.00	
1 small spirit level,	1.50	
2 taper reamers,	1.00	
2 brass oil cans,	1.00	
1 axe,	.75	
1 scoop shovel,	.50	
10 lbs. Jenkins, ¼ lb. ¼ inch Garlock, 1 lb. ⅜ inch Garlock, } packing,	4.00	
4 balls asbestos wicking,	1.00	

12 gauge glasses,	$6.00	
3 bundles reeds for making brooms,	36.00	
2 new brooms for street sweeper,	50.00	
1 shaft for street sweeper broom,	10.00	
1 set of letters for marking tools,	2.00	
1 set of numbers for marking tools,	2.00	
1 stove and pipe,	16.00	
1 copper boiler,	1.50	
1 set differential pulleys, three tons,	34.00	
2 small tackles,	2.00	
½ bbl. cylinder oil,	15.44	
½ bbl. crusher oil,	3.60	
1 grindstone,	8.00	
1 ladder,	1.00	
2 ladles,	1.00	
156 feet 9 inch rubber belting,	62.40	
20 feet 8 inch leather belting, old,	10.00	
40 feet 9 inch leather belting, old,	8.00	
12 saw blades,	1.00	
1 steam gauge,	5.00	$553.83

STATIONARY ENGINE AND BOILER.

1 engine and boiler	$850.00	
4 oil cans,	1.50	
3 belt punches,	2.25	
1 screw-driver,	.75	
2 files,	.20	
4 gauge glasses,	2.00	
5 lbs. Jenkins packing,	2.00	
1 axe,	.50	
1 saw,	.50	
1 scoop shovel,	.50	
1 slice bar, 1 poker, 1 hoe, } firing tools.	5.00	
150 belt hooks,	.37	
1 monkey wrench,	1.00	
1 hand hammer,	.75	
1 large monkey wrench,	3.00	
1 set belt clamps,	3.00	
50 feet small hose,	3.00	
40 feet 10 inch leather belt,	24.00	
½ ton coal,	3.00	
6 flat wrenches,	6.00	$909.32

STEAM ROAD ROLLER.

1 steam road roller,	$450.00	
6 new pinions gears, steel,	138.00	
1 new steel gear, 42 inch,	78.00	
1 new 24 inch steel gear,	43.00	
1 second hand set of gears,	75.00	
50 feet small hose,	2.50	
50 feet 1 inch suction hose,	60.00	
2 brass oil cans,	1.00	
2 lanterns,	1.50	
1 pinch bar,	2.00	
1 slice bar,	2.00	
1 canvas cover,	12.00	
1 copper hammer,	.75	
1 hand hammer,	1.50	
1 12 inch monkey wrench,	3.00	
1 8 inch monkey wrench,	1.50	
14 flat wrenches,	7.00	
5 socket wrenches,	2.50	
2 small chains,	1.20	
40 picks for steam road roller,	40.00	
1 chest,	4.00	$926.45

STONE CRUSHERS AND ELEVATOR.

2 stone crushers,	$1,000.00	
19 bulkhead and jaw plates,	294.50	
35 toggle plates,	87.50	
22 steel bushings,	68.00	
stone pocket, elevator, belts, etc.,		
1 counter-shaft,	2,500.00	
4 pulleys,		
3 pillow-boxes,		
1 buffer,	1.00	
1,900 short bolts for elevator buckets,	19.00	$3,970.00

PORTABLE ENGINE AND BOILER.

1 portable engine and boiler,	$500.00	
1 force pump,	2.50	
3 gauge glasses,	1.50	
6 flag wrenches,	3.00	
1 chisel,	.25	
1 iron square,	1.50	

1 spirit level,	$2.00	
1 screw driver,	.25	
1 pair dividers,	.30	
1 axe,	.50	
1 scoop shovel,	.75	
1 hand saw,	.50	
1 hand hammer,	.50	
1 copper hammer,	.75	
2 files,	.33	
1 24 inch monkey wrench,	3.00	
1 9 inch rubber belt,	29.00	
1 portable house,	17.50	
1 tool chest,	4.00	
1 canvas cover for engine,	10.00	$578.13

BLACKSMITH SHOP.

22 lbs. spring steel,	$1.65
10 lbs. machine steel,	.40
250 lbs. cast steel,	25.20
435 lbs. drill steel,	43.50
50 lbs. small band iron,	1.75
125 lbs. large band iron,	3.13
2,875 lbs. refined iron,	71.80
346 lbs. Norway iron,	8.65
23 lbs. wedge steel,	1.04
18 lbs. backing steel,	1.35
250 lbs. round iron,	8.75
138 lbs. steel punches and pieces,	13.80
6 hot chisels,	4.50
2 cold chisels,	2.00
364 lbs. steel bars,	16 38
200 lbs. pick steel,	18.00
16 lbs. lag screws,	1.60
162 lbs. large drill steel,	16.20
407 lbs. refined iron pieces,	30.53
1 spoke shave,	1.50
3 anvil cutters,	2.75
14 lbs. hand cold chisels,	2.80
54 lbs. borax,	8.10
5 fork wrenches,	5.84
20 bitts,	4.67
5 round files,	1.53
6 flat files,	1.88
17 file handles,	.51

4 wooden horses,	$1.18
700 lbs. scrap iron,	4.20
9 lbs. washers,	.54
4,328 bolts,	199.09
14 axle clips,	2.80
47 nuts,	2.35
55 lbs. old nuts,	1.10
13 lbs. rivets,	2.00
25 lbs. machine bolts,	1.50
5 square files,	1.50
24 irons for stable,	18.00
3 new springs for seats,	1.50
2 gears for street sweeper,	6.00
1 pair trace chains,	1.00
113 lbs. trace chains,	6.22
71 lbs. old springs,	2.13
2 whiffletrees,	4.00
2 grub hoes,	5.00
8 pickaxes,	14.00
65 lbs. points and chisels,	9.80
145 lbs. new stone sledges,	36.25
101 lbs. new striking hammers,	25.25
314 pick eyes,	130.62
623 lbs. horse shoes,	25.00
323 lbs. horse shoes, toed and heeled,	38.76
101 lbs. toed shoes,	4.04
5 shoe rasps,	2.50
14 lbs. horse shoe nails,	2.80
132 lbs. toe calk steel,	9.90
5½ doz. sledge handles,	16.50
30 pick handles,	7.50
4 wooden pails,	.40
9 trace chain hooks,	2.25
15 lbs. toe calks,	.75
26 lbs. backing,	5.20
2 hub bands,	2.00
3 new hammers,	4.50
1 bottom swage,	3.00
1 flatter,	4.00
11 breeching hooks,	2.75
15 new paving hammers,	22.50
4 tubs,	6.65
11 drift pins,	1.10
324 lbs. anvil,	32.40
209 lbs. anvil, new,	20.90

1 swage block,	$3.40
8 top swages,	15.00
60 lbs. heading tools,	6.00
3 sets hammers,	4.00
5 top fullers,	7.50
1 sharpening stake,	1.50
1 set wedge tools,	1.25
2 tool benches,	3.00
1 steel square,	1.50
18 pairs large tongs,	25.00
7 pairs small tongs,	5.25
2 brick forges,	90.00
1 Buffalo forge,	24.00
2 pairs bellows,	36.00
2 vises,	6.50
1 stove and pipe,	3.75
1 set screw plates, 7 sizes and taps,	20.00
1 set screw plates, 6 sizes and taps,	50.00
1 large monkey wrench,	3.00
1 small monkey wrench,	1.75
1 key wrench,	4.00
1 bit stock,	2.00
6 half round files,	1.88
2 bolt racks,	4.00
4,000 lbs. coal,	9.00
1 tire oven and tools,	70.00
2 oil cups,	.60
8 bottom swages,	14.00
4 bottom fullers,	6.00
1 axletree set,	5.00
2 large sledge hammers,	8.00
2 small sledge hammers,	8.00
2 shovels S. P.,	2.50
4 forge shovels and pokers,	4.00
5 tap wrenches,	7.50
4 hand clamps,	3.00
1 traveler,	1.50
1 drawing knife,	.30
1 bit splice,	.50
1 overhaul,	.50
1 long chisel,	.75
1 tire bender,	26.00
1 drilling machine and drills,	30.00
37 whiffletree bolts,	9.15
1 ladder,	1.00

1 tool rack,	$5.00	
1 bolt clipper,	5.00	
1 calking vise,	14.00	
168 lbs. anvil,	16.80	
2 shoeing boxes and tools,	10.00	
1 set tire stones,	25.00	$1,594.62

CONCRETE.

2 portable tar kettles,	$30.00	
2 stone rollers,	19.00	
2 iron wheelbarrows,	9.20	
1 wooden wheelbarrow,	.80	
50 lbs. canvas,	4.00	
2 large hoes,	.60	
5 iron rakes,	2.50	
2 long handle dippers,	4.50	
1 wood saw,	1.00	
1 fine sand screen,	2.00	
4 long handle shovels,	2.00	
5 pickaxes,	7.50	
2 iron bars,	3.00	
4 hand drills,	2.00	
1 stone point,	.50	
3 chisels,	1.50	
2 lbs. backing and wedges,	.30	
2 concrete pounders,	10.00	
1 mattock,	1.55	
1 spirit level,	2.00	
2 one-gal. oil cans,	.25	
1 oil squirter,	.50	
4 lanterns,	2.00	
1 paving broom,	.35	
2 galvanized iron pails,	.50	
1 hatchet,	.25	
3 axes,	1.50	
4 lantern rods,	.40	
103½ bbls. tar,	310.50	
2 sand heaters,	30.00	$450.20

CARPENTER SHOP.

350 ft. pine boards at 5½ c.,	$19.25	
200 ft. spruce boards at 2 c.,	4.00	
300 ft. white oak plank at 6 c.,	18.00	

100 ft. white wood boards at 5 c.,	$5.00
1 stove and pipe,	7.00
1 scoop shovel,	.30
1 set small blocks and falls,	5.00
1 lantern,	.50
1 broom,	.25
1 iron bar,	1.50
3 top mauls,	6.00
1 boring machine with 4 bitts,	6.50
7 pair strap hinges,	.60
3 papers iron tacks,	.15
8 papers brads,	.96
12 gross screws, ½ in. to 3 in.,	13.20
30 lbs. wire nails,	1.50
150 lbs. cut nails,	6.00
1 iron vise,	1.00
1 wooden vise,	1.50
1 spirit level,	1.50
2 monkey wrenches,	1.50
2 iron squares,	1.50
2 try squares,	1.50
5 hand saws,	2.00
1 compass saw,	1.00
1 bevel,	50
1 wood countersink,	.15
3 brad awls,	.15
1 screw driver for bit-stock,	.15
1 ladder,	.40
1 tool chest,	2.00
1 oil squirter,	.50
9 twist drills, ⅛-in. to ⅝-in.,	2.53
22 bitts, ½-in. to 1½-in.,	6.25
2 cold chisels,	1.00
1 angle borer,	1.00
1 extension bitt with 2 cutters	3.00
1 large hatchet,	.50
1 small hatchet,	.30
1 double-faced hammer,	1.30
2 claw hammers,	.50
1 ruffin hammer,	.25
3 screw drivers,	.75
3 gouges,	1.50
4 saw horses,	1.60
4 circular saws,	12.00
1 saw table,	20.00

1 drawing knife,	$ .50	
1 bit-stock,	1.35	
1 ratchet bit-stock,	1.50	
2 wood screw-clamps,	.80	
1 ripping chisel,	.50	
6 planes,	3.00	
9 chisels, ¼-in. to 2-in.,	3.60	
1 spoke shave,	.50	
1 pair dividers,	.30	
1 pair cutting pliers,	.65	
1 pair large compasses,	2.00	
1 saw set,	.65	
13 files,	.35	
1 gauge,	.50	
1 small mallet,	.25	
2 long straight edges,	1.50	
1 tool box,	1.00	
1 axe,	1.00	$183.49
		$28,026.27

TABLE No. 17.

Sewers Built in 1891.

Name.	Location.	Total Cost.	Amount Assessed	Cost per foot.	Length.	Average depth	Cu. yds. Ledge.	Size of Pipe.					Brick.					
								10-in.	12-in.	15-in.	18-in.	24-in.	36-in	48-in	54-in	60-in	66-in	72-in
BY SPECIAL	APPROPRIATION.																	
Babbitt,	From 4 ft. W. of E. line Dartmouth at Larch to 3 ft. E. of W. line Field in Babbitt,	$1,531 21	$765.60	$2.048	747.60	11.05			747.60									
Bowditch No. 3,	Cedar Grove to 50 ft. S. of Coggeshall,	1,898.40	949.20	3.532	537.40	12.78		533.40	4.00									
Bullock,	Austin to 125 ft. S. of Durfee,	524.05	262 03	1.171	447.40	7.38		157.40	290 00									
Campbell,†	Park to 4 ft. W. of E. line Cedar,	1,224.92		1.204	1,017 20	10.31		167.00	850 20									
County No. 5,	Clark's Cove to 2.80 ft. N. of S. line Cove street,	1,156.57	521.78	1.994	579.90	5.66					417.90	162.00						
County No. 4,	Rivet, N. 219 ft.,	246.79	123.40	1.016	242.70	5.14		242.70										
County No. 6,	Clark, S. 320.20 ft.	681.32	340.66	1.956	348.20	10 78		348 20										
Emerson,	Arnold, N. 230 ft,	325.11		1.305	249.00	10.38		249.00										
Grape,	From 1087.80 ft. to 1192 ft. W. of Oak,	1,566.75		15 036	104.20	15 24								104.20				
Hillman No. 3,	From 26 ft. E. of Liberty to 4 ft. W. of E. line Hunter,	2,359.66	1,179.83	1.612	1,463 60	6.85				350.60	1,113.00							
Hyacinthe,	Rivet, N. 256 ft.	202 65	101 38	.727	278.50	5.06		278.50										
Juniper and Larch,	Rivet to 4.30 ft. W. of E. line Dartmouth,	4,833 23	2,416 62	4.219	1,145.40	12.41			930 80	214.60								
Margin,	Clark's Cove to 4.40 ft. N. of S. line Cove St., via County and Cove road,	1,460 56	549.04	1.875	778.60	4.57					435.60	343.00						
Marvin,	Howard to 94.20 ft. E. of Acushnet av.,	651 41	325.72	2.479	262.70	8.82		262.70										
Mill No. 4,	Florence to 4 ft. W. of E. line Rockdale avenue,	1,485.91	742.95	1.283	1,157.40	11 47		1,157.40										
Purchase No. 5,	From 9.50 ft. N. of S. line Austin to 67 20 ft. S. of Linden,	955.15	477.58	2.776	344.00	12.45				344.00								
Rock,	Sawyer, S. 237 ft.,	474.92	237.46	1.819	261.00	9.75		261.00										
Sawyer,	From river to 117 ft. W. of Bowditch,	50,290.63		18.524	2,714.90	12.96		627.60	2,214.60					444.90	635.70	122.00	400.00	1,112
Sears,	Washington to 5 ft. S. of N. line Fair,	613.07	306.53	2.371	258.50	8.24		258.50										
Shawmut av. No. 3,	Durfee, N. 796 feet,	1,952.35		2.343	833 00	14.87			798.90	34 10								
Sycamore,	Park to 4 ft. E of W. line Cedar,	2,523.30	1,261.65	2.559	986.00	9.90		595.00	391.00									
Tremont No. 2,	Hawthorn, to 101 ft. S. of Arnold,	1,674.59	837.30	2.671	627.00	10.75		627.00										

†Lowered. ‡Relaid. *Ledge, but was not measured.

Sewers Built in 1891—*Concluded.*

Name.	Location.	Total Cost.	Amount Assessed	Cost per foot.	Length.	Average depth	Cu. yds. Ledge.	Size of Pipe.					Brick.					
								10-in.	12-in.	15-in.	18-in.	24-in.	36-in	48-in	54-in	60-in	66-in	72-in
Tripp's Brook,	From 21 ft. S. of Hillman in Newton to about 5 ft. S. of N line Hillman in Liberty,	$1,866.26		$8 035	232.25	6.07								232.25				
Ward No. 2,	From 2.70 ft. S. of Allen to 102.30 ft N. of Allen,	414.62	$207.31	2.764	150.00	11.59		150.00										
Water No. 9,	From E. line Water in Cove to 4.30 ft. N. of S. line Gifford,	1,153 85	576.93	1.467	786.10	7.24		786 10										
Willow,	Cedar, E. 318 ft.	488.55	244.28	1.434	340.70	9.04		340 70										
BY GENERAL	SEWER APPROPRIATION.																	
Clark,†	From 53 ft E. of County to 10 ft. W of E. line County,	25.00		.396	63.00	9.45			63.00									
Coffin,‡	From river to 320 ft. E. of Water,	1,657.43		5.261	315.00	7 75						630.00						
Durfee,†	From 72 ft. W. of Wilson to E. line Shawmut ave.,	1,612.47		2.656	607.00	12.56				607.00								
Howland,‡	From 14.30 ft. W. of E. line Prospect, east,	506.24	506.24		61 00	8 46							61.00					
Independent,	From 84 ft. S. of Independent in Crapo to 62 30 ft. W. of County in Independent,	850.35		.98	867.70	9.24		867.70										
Purchase,	Union, N. 215.20 ft.	1,909.10	1,874.33	7.817	244.20	13.78		244.20										
Smith,†	From 45.80 ft. E. of County to 3.25 ft. W. of E. line County,	263 03		5.362	49.05	12.34					49 05							
Spruce,	Locust, S. 192 ft.	167.88	148.63	.792	212 00	4.54		212.00										
Tripp's Brook,	From 7 ft. S of Cove road, N. 38 ft.	366 41			38 00					36.00		50.00			38.00			
Union,†	From 152.30 ft. E. of Purchase to 13 ft. W. of E. line Purchase,	1,348.15		8.155	165.30	11.05					8.00	157.30						
Wamsutta and Purchase,†	From 162.70 ft. E. of Purchase in Wamsutta to 9.50 ft. N. of S. line Austin in Purchase, and 3.60 ft. E. of W. line Purchase in Hazard,	3,391 14		5.684	596.60	14.47					428.50	168.10						
Pearl and Willis,	Filling over pipes at outlet,	411 54																
		$95,064.57	$14,956 45		20,112.10			8,366.10	6,290 10	1,586.30	2,452.05	1,510.40	61.00	781.35	673 70	122 00	400.00	1,112.3

†Lowered. ‡Relaid. *Ledge, but was not measured.

TABLE No. 18.

Catch-Basins Built in 1891.

Streets.	Location.	Cost.
Acushnet av.,	Northwest corner Wing,	$94.60
Allen,	Northwest corner Cottage,	84.11
Arnold,	Northwest corner County,	82.80
Austin,	Northeast corner Cottage,	83.01
"	Northeast corner Cedar,	80.59
Blackmer,	Northeast corner First,	83.24
"	Southwest corner Acushnet avenue,	78.99
Bowditch,	East side, at angle north of Weld,	82.29
Bullock,	East side, 1 foot south of Trinity,	74.67
Campbell,	Southwest corner Pleasant,	83.23
Cannon,	Southwest corner Second,	85.03
Cedar,	Southeast corner Swamp,	85.08
Cedar Grove,	Northwest corner Front,	72.47
Cove,	Southwest corner French avenue,	96.85
Crapo,	Northeast corner Rivet,	75.21
"	Northwest corner Rivet,	72.19
Dartmouth,	Southwest corner Cottage,	71.28
Delano,	Northeast corner Second,	70.86
Division,	Southeast corner County,	78.52
Elm,	Northwest corner Pleasant,	84.69
Griffin,	Northwest corner Second,	93.38
Hillman,	Southwest corner County,	87.41
"	Northeast corner Cottage,	85.26
"	Northeast corner Ash,	89.27
Kempton,	Northeast corner Cottage,	88.89
Madison,	Northwest corner Second,	80.95
Middle,	Southwest corner Pleasant,	88.93
"	Northwest corner Pleasant,	62.23
Mill,	Southwest corner Pleasant,	71.99
"	Northwest corner Pleasant,	66.03
North,	Northeast corner Cottage,	75.44
Potomska,	Southwest corner First,	73.96
Purchase,	East side, 17 ft. north of south line Austin,	73.55
"	East side, 26 ft. north of south line Clark,	70.84
Rivet,	Southwest corner First,	83.44
"	Southwest corner Acushnet avenue,	74.80
"	Southeast corner County,	83.79
"	South side, 4 ft. west of County,	77.43
"	South side, 315 ft. west of Bonney,	88.24
Rockland,	Southeast corner Fourth,	67.81
"	Southwest corner Fourth,	71.17
"	Northeast corner Fourth,	83.94
Shawmut av.,	Northeast corner Parker,	75.21
South,	Northwest corner Fourth,	67.26
Spring,	Northwest corner Fourth,	98.77

Catch-Basins — *Concluded.*

Streets.	Location.	Cost.
Sycamore,	Southwest corner State,	$81.18
"	Northwest corner State,	73.23
Water,	Southeast corner Pine,	48.86
William,	Northwest corner Acushnet avenue,	63.37
"	Southwest corner Pleasant,	84.16
"	Northwest corner Pleasant,	106.08
"	Southwest corner Sixth,	74.74
"	Northwest corner Sixth,	77.45
Wing,	Northwest corner Sixth,	67.00
Total, 54.	Average cost, $79.18.	$4,275.77

Repaired.

Acushnet av.,	West side, 213 ft. north of Grinnell,	$14.34
" "	East side, 215 ft. north of Grinnell,	14.34
" "	East side, 100 ft. north of Wamsutta,	7.30
Cedar,	West side, 133 ft. north of Middle,	23.35
Clark,	Southwest corner Purchase,	4.85
Orchard,	East side, 342 ft. north of Grinnell,	12.47
Parker,	Southwest corner Cottage,	20.16
Rivet,	Northwest corner County,	8.17
Summer,	Southeast corner Parker,	5.69
William,	Northeast corner Sixth,	3.90
	Sundry small repairs,	60.64
		$175.21

Discontinued.

Acushnet av.,	Northeast corner Howland.
" "	West side, 6 ft. south of Wing,
Kempton,	Northwest corner Cottage,
Mill,	North side, 5 ft. west of Pleasant,
William,	South side, 9 ft. west of Sixth.

TABLE No. 19.

Eyeholes Built in 1891.

Streets.	Location.	Cost.
Acushnet av.,	West side, 735 ft. north of Tarkiln Hill road,	$15.58
" "	West side, 978 ft. north of Tarkiln Hill road,	12.48
" "	West side, 1085 ft. north of Tarkiln Hill road,	15.69
" "	West side, 2654 ft. north of Tarkiln Hill road,	17.86
" "	West side, 4319 ft. north of Tarkiln Hill road,	11.24
County,	West side, 2 ft. south of Weld,	14.37
Durfee,	Northeast corner Mt. Pleasant,	27.33
Hillman,	South side, 30.5 ft. east of Water and 5 ft. south of Hillman,	12.84
"	South side, 43 ft. east of Water,	12.85
Kempton,	North side, 32 ft. west of old town bound,	14.82
"	South side, 32 ft. west of old town bound,	16.96
Shawmut av.,	West side, 370 ft. north of Topham,	12.81
		$184.83

Repaired.

First,	East side, 219 ft. north of Grinnell,	$3.75
Reynolds,	West side, 14 ft. south of Clark,	1.08
Second,	West side, 109 ft. north of Cannon,	5.17
		$10.00

Discontinued.

Cedar,	East side, 106 ft. north of Middle,
Weld,	North side, 23 ft. east of Pleasant,

TABLE No. 20.

Culverts and Surface Drains Laid in 1891.

Name.	Location.	Length. Feet.	Size.	Cost.	
Bonney,	231 ft. south of Rockland,	25.00	10-inch pipe,	$12.76	
Bowditch,	171 ft. north of Coggeshall,	51.00	18- " "	53.05	
Coggeshall,	South side, 2 ft. east of Bennett,	10.00	10- " "	7.90	
Davis,	47.20 ft. east of west line Front,	46.00	12- " "	25.87	
Maxfield,	North side, from Park street west 22.50 ft.,	42.50	10- " "	21.82	
Mill road,	106 ft. south of town bound at Acushnet,	158.00	24- " "	264.40	
Phillips road,	6,245 ft. from Acushnet ave.,	28.00	15- " "	33.37	
" "	2,484 ft. from Acushnet ave.,	28.00	12- " "	23.86	
" "	4,920 ft. from Acushnet ave.,	90.00	10- " "	52.70	
" "	5,234 ft. from Acushnet ave.,	39.00	18- " "	45.36	
" "	2,162 ft. south of Braley road,	29.00	18- " "	33.72	
" "	1,409 ft. south of Braley road,	29.00	18- " "	33.73	
" "	1,352 ft. south of Braley road,	28.60	18- " "	34.89	
Rivet,	South side, 60.50 ft. west of Crapo,	16.00	24- " "	20.36	
Rock,	145 ft. north of Coffin avenue,	16.00	10- " "	6.55	
"	296 ft. south of Belleville road,	10.00	24- " "	72.45	
		32.50	12- " "		
		109.50	10- " "		
		74.90	6- " "		
Rockdale av.,	13 ft. west of Dartmouth,	53.00	18- " "	33.28	
Shawmut av.,	2,566 ft. north of Fall River R. R.,	35.50	24- " "	78.82	
" "	3,565 ft. north of Fall River R. R.,	37.80	24- " "	83.92	
" "	3,977 ft. north of Fall River R. R.,	35.50	24- " "	77.71	
Tarkiln Hill rd	134 ft. east of O. C. R. R.,	31.00	12- " "	15.02	
Willow,	West of Cedar,	12.00	10- " "	7.38	$1,038.92

Repaired.

Acushnet av.,	North of Tarkiln Hill road,			$15.21	
Logan,	East of Acushnet avenue,			6.80	
Mt. Vernon,	West of Highland,			26.40	
Parker,	West of Shawmut avenue,			6.84	
Topham,	East of Shawmut avenue,			9.70	
Weld,	West of County,			10.55	
	Sundry small repairs,			9.72	$85.22
					$1,124.14

TABLE No. 21.

Sewers Repaired—1891.

Streets.	Location.	Remarks.	Cost.
Blackmer,			$8.80
Bowditch,	Between Weld and Cedar Grove,		13.55
Clark,	West of Purchase,		19.85
Fourth,			4.81
Howland,	At the river,	Filling over sewer,	4,041.59
Kempton,			15.45
Oak,		Filling over sewer,	19.06
Rivet,	Between Juniper and Dartmouth,		23.13
Smith and Walden,		Filling over sewer,	32.84
Sycamore,	Between State and Walden,		116.99
Walnut,	At the river,		33.65
			$4,329.72

TABLE No. 22.

Manholes on Old Sewers.

Name.	Location.	Cost	Remarks.
Acushnet av.,	61 ft. south of Blackmer,	$2.25	Raised to grade.
Cedar,	90 ft. north of Middle,	16.39	New.
Madison,	9 ft. west of east line Second,	10.25	New iron cover.
Robeson,	3 ft. east of west line Ashland,	53.64	New.
Water,	4 ft. south of north line Leonard	16.14	New.
		$98.67	

GENERAL SEWERS.

Accounts not included in making up tables:

Tools new and repaired,	$630.70	
Catch-basins cleaned,	1,822.07	
Carting stock to City Yard,	416.73	
Cutting in drains,	75.98	
Office expenses, salaries, etc.,	2,804.78	
Teaming,	721.28	
Tool-houses repaired,	39.13	
Stock furnished sundry sewers,	10,640.39	
" " sundry parties,	256.93	
" " street department,	1,179.29	
" " N. B. and Fairhaven bridge,	93.75	
" " parks and squares,	.20	
" " engineers' department,	9.50	
Steam drill and boiler,	650.00	
Sundry small bills,	494.15	
Stock on hand, Dec. 31st,	7,197.40	
		$27,032.28

RECAPITULATION.

DR.

Catch-basins built,	$4,275.77	
Catch-basins repaired,	175.21	
Manholes built on old sewers,	98.67	
Sewers repaired,	4,329.72	
Eyeholes built,	184.83	
Eyeholes repaired,	10.00	
Culverts and surface drains built,	1,038.92	
Culverts and surface drains repaired,	85.22	
Filling over Pearl and Willis St. sewer extension,	411.54	
Sewer construction,	9,568.00	
Accounts not included in making up tables,	27,032.28	$47,210.16

CR.

Appropriations,	$31,273.00	
Received for stock,	12,170.78	
Stock on hand Jan. 1st, 1891,	4,641.24	$48,085.02
Expended,		47,210.16
Transfer,		$874.86

NEW SEWERS.

DR.

Sundry sewers built,	$82,555.83

CR.

Sundry appropriations,	$79,707.35	
Balance from last year,	5,039.10	$84,746.45
Expended,		82,555.83
		$2,190.62
Emerson street sewer, balance carried forward,	$574.89	
Grape street sewer, balance carried forward,	1,372.35	
Shawmut ave. sewer, balance carried forward,	47.65	1,994.89
Transfer to balance,		$195.73

SEWER DEPARTMENT.

INVENTORY OF STOCK AND TOOLS, DECEMBER 31st, 1891.

3 large tool-houses,	$145.00
8 mortar boxes,	8.00
7 small derricks,	140.00
1 boom derrick with equipments,	300.00
4 large winch derricks,	120.00
9 small blocks and falls,	50.00
2 pair large blocks and falls,	33.00
82 lanterns,	61.50
4 diaphragm pumps,	120.00
400 ft. canvas hose,	40.00
25 sledges,	75.00
72 striking hammers,	144.00
8 drilling hammers,	12.00
304 blowing drills,	612.00
116 small drills,	58.00
10 lbs. backing and wedges,	2.50
17 blasting spoons,	11.90
50 ft. dynamite fuse,	5.00
60 lbs. dynamite,	9.00
6 reels connecting wire,	15.00
19 stone chains,	38.00
1 chain with rope,	.50

51 iron bars,	$76.50
1 pinch bar,	1.00
48 iron wedges,	14.40
5 chisels,	2.50
14 stone points,	7.00
61 long handle round point shovels,	45.75
131 short handle round point shovels,	94.97
32 hoes,	8.00
162 pickaxes,	162.00
9 trowels,	6.75
2 monkey wrenches,	1.00
1 dirt pounder,	.50
1 iron square,	.75
10 axes,	5.00
1 bit stock and bit,	1.50
8 hand saws,	4.00
75 ft. ¾ inch hose,	15.00
6 short handle six tine forks,	6.00
2 tamper irons,	3.00
1 broom,	.25
2 drinking dippers,	1.00
46 old water pails,	2.30
7 hose wrenches,	3.50
2 brick hammers,	1.00
2 wooden mallets,	.50
12 new pump rubbers,	27.00
18 tag ropes and hooks,	4.50
6 large wedges,	3.00
4 batteries for blasting,	20.00
2 long handle dippers,	1.00
10 large tin dippers,	2.50
4 claw hammers,	4.00
9 spirit levels,	22.50
3 blasting cap cutters,	.75
1 paving pounder,	6.00
5 1-gal. oil cans,	1.25
5 5-gal. oil cans,	1.25
4 paving brooms,	3.00
3 pairs pipe tongs,	6.00
1 stone drag,	3.00
27 short handle round point shovels,	20.25
1 water tub,	4.50
1 oil squirter,	.25
3 chocking hammers,	2.25
4 paving hammers,	8.00

6 short ladders,	$4.50
10 pony shovels,	7.50
8 files,	2.40
6 lantern globes,	.48
6 jack screws,	50.00
1 swedge casting,	3.00
5 drill hole pumps,	5.00
12 fall blocks,	60.00
3 coils marlin,	1.80
6 screws for pumps,	3.00
1 coil rope for falls,	17.75
1 cotton line,	1.50
4 old blocks,	4.00
300 ft. leading wire,	3.75
1 Stilson wrench,	3.00
2 water casks,	15.00
5 iron wheelbarrows,	25.00
1 vise,	3.00
1 forge hammer,	1.50
1 steel square,	.75
20 grade stubs,	1.00
1 tube scraper,	2.00
350 exploders,	10.85
1 pitchfork,	1.00
15 iron covers for catch-basins,	33.30
11 3-ft. flag wash-stones,	13.53
3 granite covers for catch-basins,	45.00
1 granite cover for catch-basins,	10.00
27 bbls. cement,	29.16
11 5-ft. x 5-ft. flag covers for catch basins,	141.68
77¾ tons brick sand,	.77.75
14,084 ft. old spruce plank,	112.64
11,000 ft. old spruce joist, 4 x 6,	88.00
840 ft. old spruce timber, 6 x 8,	6.72
768 ft. old spruce timber, 8 x 8,	6.08
2 pieces 6-in. bends, vitrified pipe,	.99
10 pieces 8-in. bends, vitrified pipe,	8.10
60 pieces 10-in. bends, vitrified pipe,	74.25
3 pieces 15-in. bends, vitrified pipe,	6.41
747 pieces 6-in. straight vitrified pipe,	201.69
2,000 pieces 10-in. straight vitrified pipe,	1,170.00
178 pieces 6-in. on 10-in. branches,	234.69
114 pieces 10-in. on 10-in. branches,	150.31
646 pieces 12-in. straight,	494.19
121 pieces 6-in. on 12-in. branches,	208.54

44 pieces 10-in. on 12-in. branches,	$75.83
1,768 pieces 15-in. straight,	1,989.00
297 pieces 6-in. on 15-in. branches,	752.45
64 pieces 10-in. on 15-in. branches,	162.14
288 pieces 18-in. straight,	440.64
44 pieces 6-in. on 18-in. branches,	151.47
58 pieces 10-in. on 18-in. branches,	199.67
54 pieces 24-in. straight,	157.95
1 3½-inch rock drill, boiler, drills, etc.,	650.00
26,072 brick,	275.06
	$10,800.59

NEW BEDFORD AND FAIRHAVEN BRIDGE.

	Average Height. Feet.	Length. Feet.	Square Yards.	Cost.
New block paving, Pope's Island,			1,394.58	$3,143.21
New block paving, Fish Island,			512.61	1,155.93
Repaired cobble paving,				130.61
New curbing, Pope's Island, N. side,		829		539.14
New curbing, Fish Island, N. side,		408		294.60
Concrete sidewalk, Pope's Island, north side,			562.47	365.61
Concrete sidewalk, Fish Island, north side,			207.76	135.04
Bank wall, Pope's Island, N. side,	1	357.02		173.39
	1.5	114.03		
	1.2	108		
Bank wall, Fish Island, N. side,	1	422.07		90.24
Driveway, Fish Island, N. side,		50.06		16.55
Eyehole with drain, Pope's Island, north side, 133 ft. east of wood work of bridge,				40.21
Eyehole with drain, Fish Island, north side, 103 ft. east of woodwork of bridge,				79.37
Draw-tender and assistant's salaries,				988.59
Repairs to woodwork,				184.41
Filling holes,				6.96
Shoveling snow,				14.63
Brooms,				4.00
Salt,				1.50
Coal,				9.75
Sundry small repairs,				29.40
				$7,403.14

Appropriation,	$10,000.00
Credits,	37.81
Total receipts,	10,037.81
Total outlay,	7,403.14
Carried to 1892 account,	$2,634.67

PARKS AND SQUARES.

COMMON.

Pay rolls,	$547.50	
Chas. A. Gray, horse for mowing,	52.50	
Geo. D. Richards, tools,	4.10	
Wm. Baylies, salt,	12.00	
N. P. Hayes, hoe,	.30	
Perry P. Jenney & Son, repairing and sharpening lawn mowers,	38.71	
Street department bills, repairing seats and carting rubbish,	7.34	$662.45

CITY HALL SQUARE.

P. P. Jenney & Son, sharpening and repairing mowers,	$1.37	
Geo. C. Bliss, grass seed,	1.10	
D. M. Piper, care of square,	8.00	
General sewers, 2 5-in. grates,	.20	
Street department bill, trimming trees and repairing concrete,	43.46	$54.13

TRIANGLE, CORNER WARD, CLAY AND HICKORY STREETS.

Street department bill, filling,	$141.19
	$857.77

CREDITS.

Appropriation,	$2,500.00
Credits,	27.00
	2,527.00
Expended,	857.77
Transfer to balance,	$1,669.23

ENGINEERING DEPARTMENT.

Setting bound stones,	$970.44
Record of catch-basins, manholes and eyeholes,	59.86
Copying plans for street layouts.	714.25
Correcting office maps,	19.58
Coggeshall street bridge,	160.73
Car tickets,	115.00
Check levels,	296.93
Record of drains entered,	97.65
Defining street lines,	97.47
Grade for property owners,	218.07
New grades established,	29.82
New instruments, etc.,	314.06
Repairing instruments,	52.93
Layouts of new streets,	1,527.61
Mile-stones, French avenue,	18.16
Plans of catch-basins, eyeholes and culverts,	46.04
Office expenses,	2,197.75
Numbering streets,	13.00
Record of branches,	3.70
Report for 1890,	10.32
Report for 1891,	50.85
Record of accepted streets,	131.10
Record of new work,	96.51
Record of poles,	3.83
Corrections and additions to section plans,	144.67
Record of sewers,	105.51
Table of old sewers,	72.30
Soundings in Maxfield street dock,	56.85
Sundry small street items,	68.04
Sundry small sewer items,	30.84
Work done for street department,	340.13
Work done for general sewers,	347.16
Work done for outside parties,	94.10
	$8,505.26

Appropriation,	$8,000.00
Credits,	755.90
Total receipts,	8,755.90
Total outlay,	8,505.26
Carried to 1892 account,	$250.64

PUBLIC WORKS PERMANENT IMPROVEMENTS.

	Length. Feet.	Cost.
New sea wall, Cove road, between County and Orchard streets, stock, labor and teaming for 1890 and 1891,	955	$7,249.93

Appropriation,	$12,000.00
Expended,	7,249.93
Balance carried to 1892 account,	$4,750.07

List of Catch-Basins.

Name.	Location.	Basin.	Opening.
Acushnet av.,	W. side, 213 ft. north of Grinnell,	In street.	In curb.
" "	E.s., 215.30 ft. n. of n. line Grinnell	"	"
" "	Northwest corner Wing,	In walk.	"
" "	E. side, 5 ft. north of Cannon,	In street.	"
" "	W. side, 8 ft. north of Union,	In walk.	"
" "	E. side, on south line Campbell,	In street.	"
" "	E. side, 24 ft. south of Pearl,	"	"
" "	Southeast corner Merrimac,	"	In street.
" "	E. side, 100 ft. n. of Wamsutta,	"	"
" "	W. side, 175 ft. n. of Wamsutta,	"	"
" "	W. side, 481 ft. n. of Wamsutta,	"	"
" "	E. side, 484 ft. n. of Wamsutta,	"	"
" "	E. side, 8 ft. south of Logan,	"	In curb.
" "	Northwest corner of Logan,	"	"
" "	E. side, 8 ft. n. of Washburn,	"	"
" "	Northwest corner Coggeshall,	In walk.	"
" "	E. side, 11 ft. n. of Coggeshall,	"	"
Allen,	N. side, 13 ft. west of Green,	In street.	"
"	N. side, 13 ft. e. of w. line Bonney,	"	In street.
"	S. side, 8 ft. west of Orchard,	"	"
"	N. side, 6 ft. east of Cottage,	"	In curb.
"	Northwest corner Cottage,	In walk.	"
"	Southwest corner Ward,	"	"
Arnold,	Northwest corner County,	"	"
"	Northwest corner Lincoln,	In street.	"
"	S. side, 11 ft. east of Ash,	"	"
"	N. side, 6 ft. west of Ash,	"	"
"	S. side, 122 ft. east of Park,	In walk.	"
"	N. side, 112 ft. east of Park,	"	"
Ash,	E. side, 87 ft. south of Maple,	In street.	In street.
"	Northwest corner Maple,	"	"
"	Northeast corner Union,	In walk.	In curb.
"	Northeast corner Middle,	In street.	"
Austin,	N. side, 44 ft. west of Purchase,	"	"
"	S. side, 10 ft. east of Pleasant,	"	"
"	Southwest corner County,	In walk.	"
"	Northeast corner Cottage,	"	"
"	Northeast corner Cedar,	"	"
"	Northwest corner Wilson,	"	"
Bedford,	Northwest corner Acushnet av.,	In street.	"
"	Southwest corner Acushnet av.,	"	"
"	Southwest corner Fourth,	"	"
"	Northwest corner Fourth,	"	"
"	Northwest corner County,	In walk.	"
"	Southeast corner Borden,	"	"
Blackmer,	Southwest corner First,	"	"
"	Northeast corner First,	"	"
"	N. side, 10 ft. west of First,	"	"
"	Southwest corner Acushnet av.,	"	"
Bonney,	W. side, 47 ft. south of Forest,	In street.	"

List of Catch-Basins—*Continued.*

Name.	Location.	Basin.	Opening.
Bonney,	E. side, 27 ft. south of Forest,	In street.	In curb.
Bowditch,	E. side, at angle north of Weld,	In walk.	"
Bullock,	E. side, 1 ft. south of Trinity,	"	"
Campbell,	S. side, 5 ft. east of Purchase,	In street.	"
"	S. side, 21 ft. east of Pleasant,	"	"
"	Southwest corner Pleasant,	In walk.	"
"	N. side, 14 ft. east of State,	In street.	"
"	Southwest corner Cottage,	In walk.	"
Cannon,	Southwest corner Water,	In street.	"
"	Northwest corner Water,	"	"
"	Southwest corner Second,	In walk.	"
Cedar,	Southwest corner Morgan,	In street.	"
"	Southeast corner Swamp,	In walk.	"
"	W. side, 133 ft. north of Middle,	"	"
"	W. side, 148 ft. north of Middle,	"	"
"	E. side, 5 ft. north of Hillman,	"	"
"	Northwest corner Locust,	In street.	"
"	E. side, 14 ft. south of Austin,	"	"
Cedar Grove,	S. side, 9 ft. west of Front,	In walk.	"
"	Northwest corner Front,	"	"
"	S. side, 42 ft. east of Blackburn,	"	"
Chancery,	Southeast corner of Elm,	In street.	"
Clark,	S. side, 5 ft. west of Purchase,	"	In street.
"	N. side, 18 ft. west of State,	"	"
"	S. side, 12 ft. west of State,	"	"
Clinton,	S. side, 15 ft. west of Ash,	"	In curb.
Coffin,	N. side, 299 ft. east of Water,	"	"
Coggeshall,	Northwest corner Rock,	In walk.	"
Cottage,	E. side, 8 ft. north of Arnold,	"	"
"	E. side, 5 ft. south of Elm,	"	"
"	Northeast corner Elm,	"	"
"	Northeast corner Middle,	"	"
County,	Northeast corner Delano,	"	"
"	W. side, 39 ft. north of Mosher,	In street.	"
"	W. side, 7 ft. south of Thompson,	"	"
"	Northeast corner Thompson,	"	"
"	W. side, 26 ft. north of Rockland,	"	"
"	Northwest corner Washington,	"	"
"	E. side, 15 ft. n. of s. line Sherman	"	"
"	Southwest corner Sherman,	"	"
"	Northwest corner Allen,	"	"
"	Southwest corner Bedford,	"	"
"	Northeast corner Bedford,	"	"
"	W. side, 7 ft. north of Bedford,	"	In street.
"	W. side, 9 ft. n. of s. line Russell,	"	In curb.
"	Northeast corner Russell,	"	"
"	W. side, 18 ft. n. of s. line Walnut,	"	"
"	W. side, 91 ft. south of Morgan,	"	"
"	W. side, 55 ft. south of Morgan,	"	"
"	Southwest corner Elm,	In walk.	"

List of Catch-Basins — *Continued.*

Name.	Location.	Basin.	Opening.
County,	Southeast corner Sycamore,	In street.	In curb.
"	Southwest corner Smith,	"	"
"	W. side, 10 ft. north of Smith,	"	"
"	E. side, 18 ft. north of Smith,	"	"
"	Southwest corner Robeson,	In walk.	"
"	Southeast corner Hazard,	In street.	"
"	Southeast corner Austin,	"	"
"	W. side, 15 ft. north of Austin,	"	"
"	W. side, 23 ft. south of Linden,	In walk.	"
"	Southwest corner Clark,	"	"
"	Northwest corner Clark,	"	"
"	Northwest corner Cedar Grove,	"	"
"	Southwest corner Sawyer,	"	"
"	Northwest corner Sawyer,	"	"
Court,	N. side, 8 ft. west of Park,	In street.	"
Cove,	Southwest corner French ave.,	In walk.	"
Crapo,	Northeast corner Rivet,	"	"
"	Northwest corner Rivet,	"	"
"	Northeast corner Thompson,	"	"
"	Southeast corner Rockland,	In street.	"
Dartmouth,	Southwest corner Oak,	In walk.	"
"	E. side, 34 ft. south of Hickory,	"	"
"	Southwest corner Hickory,	"	"
"	Southwest corner Cottage,	"	"
"	W. side, at corner of Orchard,	"	"
Delano,	Southwest corner Second,	"	"
Division,	Southeast corner County,	"	"
"	N. side, 657 ft. west of County,	"	"
Durfee,	Northwest corner Mt. Pleasant,	In street.	"
"	N. side, 15 ft. e. of w. line Wilson,	"	In street.
Elm,	Southwest corner Water,	In walk.	In curb.
"	N. side, 8 ft. west of Water,	In street.	"
"	S. side, 10 ft. east of Second,	"	"
"	N. side, 19 ft. east of Second,	"	"
"	S. side, 11 ft. w. of Acushnet av.,	"	"
"	N. side, 113 ft. w. of Acushnet av.	"	"
"	S. side, 5 ft. west of Purchase,	"	"
"	N. side, 11 ft. west of Purchase,	"	"
"	Northwest corner Pleasant,	In walk.	"
"	N. side, 8 ft. west of Sixth,	In street.	"
"	S. side, 16 ft. west of Sixth,	"	"
"	S. side, 9 ft. east of Eighth,	"	"
"	N. side, 11 ft. east of County,	"	"
"	Northwest corner of County,	"	"
"	N. side, 61 ft. west of Cottage,	"	"
"	N. side, 5 ft. east of Cedar,	"	"
"	Southwest corner Cedar,	"	"
"	S. side, 10 ft. west of Park,	"	"
"	Northeast corner Newton,	In walk.	"
Fifth,	E. side, 170 ft. north of Grinnell,	In street.	"

List of Catch-Basins—*Continued.*

Name.	Location.	Basin.	Opening.
Fifth,	W. side, 170 ft. north of Grinnell,	In street.	In curb.
First,	E. side, 30 ft. south of Spring,	"	"
Franklin,	N. side, 15 ft. west of Pleasant,	"	"
"	S. side, 7 ft. east of State,	"	"
Front,	W. side, 9 ft. north of Potomska,	"	"
"	W. side, 105 ft. s. of Howland,	"	In street.
"	E. side, 14 ft. n. of s. line Middle,	"	In curb.
"	Northwest corner Hicks,	In walk.	"
"	Northwest corner Coggeshall,	"	"
Grape,	Southwest corner Oak,	"	"
Griffin,	Northwest corner Second,	"	"
Grinnell,	N. side, 4 ft. east of Water,	In street.	In street.
"	Southwest corner Water,	In walk.	In curb.
"	Northwest corner First,	"	"
"	Southwest corner Second,	"	"
"	Southwest corner Acushnet av.,	"	"
"	N. side, 11 ft. w. of Acushnet av.,	"	"
"	N. side, 6 ft. west of Fourth,	In street.	In street.
"	S. side, 6 ft. west of Fourth,	"	In curb.
"	N. side, 14 ft. east of Sixth,	In walk.	"
"	S. side, 33 ft. east of Sixth,	"	"
"	Northwest corner of County,	In street.	"
"	Southwest corner of County,	"	"
Grove,	Northeast corner Ash,	In walk.	"
Hawthorn,	N. side, 14 ft. west of Cottage,	In street.	"
"	N. side, 11 ft. west of Ash,	"	"
Hazard,	S. side, 10 ft. west of Pleasant,	"	"
"	N. side, 11 ft. west of Pleasant,	"	"
"	S. side, 7 ft. east of State,	"	"
Hickory,	Northwest corner Dartmouth,	In walk.	"
High,	S. side, 19 ft. east of Purchase,	In street.	"
"	N. side, 19 ft. east of Purchase,	"	"
"	Southwest corner Foster,	"	"
"	Northwest corner Foster,	"	"
Hillman,	N. side, 7 ft. west of Second,	"	"
"	S. side, 8 ft. west of Second,	"	"
"	S. side, 10 ft. east of Purchase,	"	"
"	N. side, 10 ft. east of Purchase,	"	"
"	S. side, 40 ft. west of Foster,	"	"
"	N. side, 65 ft. east of Walden,	"	"
"	S. side, 8 ft. east of County,	"	"
"	Southwest corner County,	In walk.	"
"	Northeast corner Cottage,	"	"
"	S. side, 6 ft. west of Cedar,	In street.	"
"	Northeast corner Ash,	In walk.	"
Howland,	Northwest corner Water,	In street.	"
Kempton,	N. side, 73 ft. east of Pleasant,	"	"
"	S. side, 73 ft. east of Pleasant,	"	"
"	N. side, 38 ft. west of Hill,	"	"
"	S. side, 72 ft. west of Hill,	"	"

List of Catch-Basins —*Continued.*

Name.	Location.	Basin.	Opening.
Kempton,	S. side, 2 ft. e of w. line Chestnut,	In street.	In curb.
"	Northwest corner Chestnut,	"	"
"	Northeast corner Cottage,	In walk.	"
"	Northeast corner Cedar,	In street.	"
"	Southeast corner Cedar,	"	"
"	S. side, 13 ft. west of Ash,	"	"
"	S. side, 8 ft. east of Park,	"	"
"	S. side, 114 ft. east of Newton,	"	"
"	N. side, 7 ft. west of Newton,	"	"
"	S. side, 6 ft. west of Liberty,	In walk.	"
"	S. side, 12 ft. east of Jenney,	In street.	"
"	N. side, 18 ft. east of Beach,	"	"
Linden,	S. side, 5 ft. west of Purchase,	"	In street.
"	N. side, 5 ft. west of Purchase,	"	"
"	Northwest corner Pleasant,	In walk.	In curb.
"	S. side, 5 ft. west of Pleasant,	In street.	In street.
"	Southeast corner County,	"	"
"	N. side, 25 ft. east of County,	In walk.	In curb.
"	S. side, 28 ft. west of County,	"	"
Lindsey,	E. side, 310 ft. south of Kempton,	"	"
Locust,	S. side, 11 ft. east of Chestnut,	In street.	"
"	N. side, 8 ft. west of Chestnut,	"	"
"	S. side, 20 ft. east of Cedar,	"	"
Logan,	S. side, 121 ft. east of Purchase,	"	In street.
"	N. side, 117 ft. east of Purchase,	"	"
Madison,	N. side, 18 ft. west of Water,	"	In curb.
"	S. side, 29 ft. west of Water,	"	"
"	Northwest corner Second,	In walk.	"
"	S. side, 39 ft. w. of Acushnet av.,	In street.	"
"	N. side, 20 ft. east of Fourth,	"	"
"	N. side, 12 ft. east of Sixth,	"	"
Maxfield,	S. side, 8 ft. west of Second,	"	"
"	N. side, 5 ft. west of Purchase,	"	"
"	Southwest corner Foster,	"	"
"	S. side, 5 ft. west of Walden,	"	"
"	N. side, 6 ft. west of Walden,	"	"
"	Northwest corner County,	"	"
"	Southwest corner County,	"	"
"	Northeast corner Ash,	In walk.	"
Mechanics l.,	Northwest corner Sixth,	In street.	"
Merrimac,	S. side, 140 ft. east of Purchase,	"	"
"	N. side, 140 ft. east of Purchase,	"	"
"	Southwest corner Purchase,	"	"
"	Northwest corner Purchase,	"	"
"	N. side, 13 ft. west of Pleasant,	"	"
"	S. side, 18 ft. west of Pleasant,	"	"
"	N. side, 8 ft. west of State,	"	"
Middle,	S. side, 10 ft. west of Second,	"	"
"	N. side, 20 ft. west of Second,	"	"
"	S. side, 9 ft. west of Purchase,	"	"

List of Catch-Basins—*Continued.*

Name.	Location.	Basin.	Opening.
Middle,	N. side, 19 ft. west of Purchase,	In street.	In curb.
"	Southwest corner Pleasant,	In walk.	"
"	Northwest corner Pleasant,	"	"
"	N. side, 12 ft. west of Foster,	In street.	"
"	Southwest corner Sixth,	"	"
"	N. side, 7 ft. east of County,	"	"
"	N. side, 8 ft. east of Cedar,	"	"
Mill,	Northwest corner Acushnet av.,	"	"
"	Southwest corner Purchase,	"	"
"	Southwest corner Pleasant,	In walk.	"
"	Northwest corner Pleasant,	"	"
"	S. side, 8 ft. east of Hill,	In street.	"
"	S. side, 9 ft. east of County,	"	"
"	Southwest corner County,	In walk.	"
North,	Northwest corner Water,	In street.	"
"	Southwest corner Water,	"	"
"	S. side, 10 ft. west of Second,	"	"
"	N. side, 5 ft. e. of Acushnet av.,	"	"
"	S. side, 7 ft. west of Purchase,	"	"
"	N side, 13 ft. west of Purchase,	"	"
"	S. side, 5 ft. west of Foster,	"	"
"	N. side, 13 ft. east of Hill,	"	"
"	S. side, 6 ft. west of Hill,	"	"
"	S. side, 15 ft. east of County,	"	"
"	Southwest corner County,	In walk.	"
"	Northeast corner Cottage,	"	"
"	Southeast corner Ash,	"	"
"	Northeast corner Park,	"	"
Orchard,	E. side, 342 ft. north of Grinnell,	"	"
Parker,	Southeast corner Summer,	"	"
"	Southwest corner Summer,	"	"
"	Southwest corner Cottage,	"	"
"	S. side, 8 ft. west of Cedar,	"	"
"	N. side, 13 ft. w. of Shawmut av.,	In street.	"
Penniman,	S. side, 5 ft. west of Purchase,	"	In street.
"	N. side, 8 ft. west of Purchase,	"	"
"	N. side, 7 ft. east of State,	"	"
"	Southeast corner State,	"	"
"	Southwest corner County,	"	In curb.
Pleasant,	W. side, 5 ft. south of Market,	"	"
Pope,	N. side, 7 ft. west of Purchase,	In walk.	"
Potomska,	Southwest corner First,	"	"
"	Southwest corner Second,	"	"
"	Northeast corner Acushnet av.,	In street.	"
Prospect,	E. side, at foot of Howland,	In walk.	"
Purchase,	W. side, 9 ft. south of Pearl,	In street.	"
"	E. side, 21 ft. north of Pope,	"	"
"	W. side, 49 ft. north of Pope,	"	"
"	W. side, 5 ft. north of Franklin,	"	"
"	Southwest corner Hazard,	"	"

List of Catch-Basins—*Continued.*

Name.	Location.	Basin.	Opening.
Purchase,	Northwest corner Hazard,	In street.	In curb.
"	Southwest corner Austin,	"	"
"	E. side, 17 ft. n. of s. line Austin,	In walk.	"
"	E. side, 25 ft. s. of n. line Austin,	In street.	"
"	Northwest corner Austin,	"	"
"	Southwest corner Weld,	In walk.	"
"	E. side, 26 ft. n. of s. line Clark,	"	"
"	Northwest corner Clark,	In street.	In street.
"	Northwest corner Cedar Grove,	"	"
"	W. side, 19 ft. n. of Coggeshall,	"	In curb.
"	Northwest corner Purchase,	"	"
Reynolds,	E. side, 13 ft. south of Clark,	"	"
Rivet,	Southwest corner First,	In walk.	"
"	Southeast corner Acushnet ave.,	In street.	"
"	Southwest corner Acushnet ave.,	In walk.	"
"	Northeast corner Acushnet ave.,	In street.	"
"	Southeast corner County,	In walk.	"
"	S. side, 4 ft. west of County,	"	"
"	N. side, 6 ft. west of County,	"	"
"	N. side, 314 ft. west of Bonney,	"	"
"	S. side, 315 ft. west of Bonney,	"	"
"	Northwest corner Juniper,	"	"
Robeson,	S. side, 15 ft. east of Cedar,	In street.	"
"	Northwest corner Cedar,	In walk.	"
Rock,	Northwest corner Sawyer,	"	"
Rockland,	N. side, 7 ft. w. of Acushnet av.,	In street.	"
"	Southeast corner Fourth,	In walk.	"
"	Southwest corner Fourth,	"	"
"	Northeast corner Fourth,	"	"
"	Northwest corner Fourth,	"	"
"	N. side, 5 ft. west of Crapo,	"	"
Russell,	Northwest corner Acushnet av.,	In street.	"
"	Southwest corner Acushnet av.,	In walk.	"
"	Northwest corner Fourth,	In street.	"
"	S. side, 20 ft. west of Fifth,	"	"
School,	N. side, 9 ft. east of Second,	"	"
"	S. side, 9 ft. west of Second,	"	"
"	N. side, 7 ft. east of Fourth,	"	"
"	S. side, 39 ft. west of Fourth,	"	"
"	N. side, 11 ft. west of Sixth,	"	"
"	S. side, 13 ft. west of Sixth,	"	"
Second,	Northwest corner Howland,	In walk.	"
"	W. side, 5 ft. south of Spring,	In street.	"
Shawmut av.,	Northeast corner Parker,	In walk.	"
Sixth,	W. side, 99 ft. north of Grinnell,	In street.	"
Smith,	Southeast corner Chestnut,	"	"
"	N. side, 9 ft east of Park,	"	"
South,	N. side, 9 ft. east of Fourth,	"	"
"	Northwest corner Fourth,	In walk.	"
Spring,	N. side, 9 ft. w. of Acushnet av.,	In street.	"

List of Catch-Basins—*Continued.*

Name.	Location.	Basin.	Opening.
Spring,	Northwest corner Fourth,	In walk.	In curb.
"	S. side, 18 ft. west of Fourth,	In street.	"
"	S. side, 22 ft. west of Sixth,	"	"
"	N. side, 31 ft. west of Sixth,	"	"
State,	Southwest corner Weld,	In walk.	"
Summer,	W. side, 5 ft north of Sycamore,	In street.	"
"	W. side, 9 ft. south of Smith,	"	"
Sycamore,	S. side, 7 ft. west of Pleasant,	"	"
"	Southwest corner State,	In walk.	"
"	Northwest corner State,	"	"
"	Northwest corner Walden,	In street.	"
"	South side, 6 ft. east of Thomas,	"	"
"	Northwest corner County,	"	"
Tremont,	W. side, 8 ft. south of Union,	In walk.	"
Union,	S. side, 6 ft. west of Water,	In street.	"
"	N. side, 6 ft. west of Water,	"	"
"	Northwest corner Second,	"	"
"	S. side, 6 ft. west of Fourth,	"	"
"	N. side, 15 ft. west of Fourth,	"	"
"	N. side, 9 ft. west of Sixth,	"	"
"	Southwest corner Seventh,	"	"
"	Northwest corner Eighth,	"	"
"	S. side, 6 ft. west of Eighth,	"	"
Walnut,	S. side, on east line Front,	"	"
"	N. side, 9 ft. west of Water,	"	"
"	S. side, 11 ft. west of Water,	"	"
"	N. side, 18 ft. west of Fourth,	"	"
"	S. side, 20 ft. west of Fourth,	"	"
"	S. side, 10 ft. west of Sixth,	"	"
"	N. side, 16 ft. east of County,	"	"
Wamsutta,	S. side, 148 ft. w. of Acushnet av.,	"	"
"	N. side, 160 ft. w. of Acushnet av.,	"	"
Ward,	Northeast corner Bay,	In walk.	"
Washburn,	Northwest corner Front,	In street.	"
"	S. side, 277 ft. west of Front,	"	"
Washington,	N. side, 8 ft. west of County,	"	"
"	N. side, 5 ft. east of Crapo,	"	"
"	Southwest corner Orchard,	In walk.	"
"	Northeast corner Orchard,	"	"
Water,	W. side, 16 ft. south of Rivet,	In street.	"
"	W. side, 15 ft. south of Potomska,	"	"
"	E. side, 90 ft. north of Potomska,	In walk.	"
"	Southeast corner Pine,	"	"
"	Southwest corner Cannon,	In street.	"
"	Southeast corner Cannon,	"	"
"	Southwest corner Coffin,	"	"
"	E. side, 44 ft. south of Spring,	"	"
"	W. side, 11 ft. north of William,	"	"
"	E. side 9 ft. south of Elm,	"	"
"	E. side, 20 ft. n. of s. line Elm,	"	"

List of Catch-Basins—*Concluded.*

Name.	Location.	Basin.	Opening.
Water,	Southeast corner Ark lane.	In street.	In curb.
"	E. side, 12 ft. s. of n. line North,	"	"
Weld,	N. side, 2d angle, e. of Bowditch,	In walk.	"
"	S. side, 4 ft. east of Bowditch,	In street.	"
"	S. side, 95 ft. east of Purchase,	In walk.	"
"	Southwest corner Pleasant,	"	"
"	S. side, 6 ft. west of County,	"	"
William,	S. side, 9 ft. west of Second,	In street.	"
"	Northwest corner Acushnet ave.,	In walk.	"
"	N. side, 8 ft. east of Purchase,	In street.	"
"	Southwest corner Purchase,	"	"
"	N. side, 15 ft. west of Purchase,	"	"
"	Southwest corner Pleasant,	In walk.	"
"	Northwest corner Pleasant,	"	"
"	Northeast corner Sixth,	In street.	"
"	Southwest corner Sixth,	In walk.	"
"	Northwest corner Sixth,	"	"
"	N. side, 8 ft. east of Eighth,	In street.	"
"	N. side, 8 ft. east of County,	"	"
Willis,	N. side, 9 ft. w. of Acushnet av.,	"	"
"	S. side, 3 ft. east of Purchase,	"	"
"	N. side, 15 ft. west of Purchase,	"	"
"	Southwest corner Summer,	In walk.	"
"	Southwest corner Cottage,	"	"
Wing,	Northwest corner Fourth,	"	"
"	S. side, 7 ft. west of Fourth,	In street.	"
"	N. side, 6 ft. east of Sixth,	"	"
"	Northwest corner Sixth,	In walk.	"

List of Eyeholes.

Name.	Location.
Acushnet av.,	E. side, 7 ft. south of Merrimac.
"	E. side, 102 ft. south of Wamsutta.
"	E. side, 112 ft. north of Wamsutta.
"	E. side, 493 ft. north of Wamsutta.
"	W. side, 207 ft. north of Sawyer.
"	E. side, 216 ft. north of Sawyer.
"	W. side, 73.50 ft. north of Tarkiln Hill road.
"	W. side, 978 ft. north of Tarkiln Hill road.
"	W. side, 1085 ft. north of Tarkiln Hill road.
"	W. side, 2654 ft. north of Tarkiln Hill road.
"	W. side, 4319 ft. north of Tarkiln Hill road.
Allen,	N. side, 7 ft. west of Ward.
"	N. side, 572 ft. west of Page.
"	S. side, 736 ft. west of Brigham.
"	N. side, 750 ft. west of Brigham.
Bridge,	N. side, at Pope's Island, 133 ft. e. of woodwork of bridge.
"	N. side, at Fish Island, 103 ft. e. of woodwork of bridge.
Butler,	Northwest corner E. French av.
"	Southwest corner E. French av.
Cedar,	Southeast corner Morgan.
Cedar Grove,	N. side, 43 ft. east of Blackburn.
"	Middle, 262 ft. west of County.
Clark,	S. side, 4 ft. west of Purchase.
"	N. side, 8 ft. west of Purchase.
"	N. side, 11 ft. west of State.
"	S. side, 13 ft. west of State.
"	Southwest corner County.
"	Northwest corner County.
Cottage,	Northeast corner Hawthorn.
County,	Northwest corner Elm.
"	W. side, 14 ft. south of Austin.
"	W. side, 2 ft. south of Weld.
Crapo,	Northeast corner Rockland.
Durfee,	Northeast corner Mt. Pleasant.
Elm,	Southeast corner Cedar.
First,	E. side, 121 ft. north of Potomska.
"	E. side, 219 ft. north of Grinnell.
Front,	E. side, 32 ft. south of School.
"	45 ft. e. of w. line Front, 15 ft. n. of s. line School.
"	W. side, 306 ft. north of Wamsutta.
Grape,	Northwest corner of Oak.
Hawthorn,	N. side, 108 ft. west of Ash.
"	S. side, 105 ft. west of Ash.
"	S. side, 254 ft. east of Tremont.
Hillman,	S. side, 50 ft. west of Water.
"	30.5 ft. east of Water, 5 ft. south of Hillman.
"	S. side, 43 ft. east of Water.
Howland,	N. side, 14 ft. west of east line Front.
Kempton,	N. side, 85 ft. east of Newton.
"	N. side, 209 ft. west of Rockdale av.

List of Eyeholes—*Continued.*

Name.	Location.
Kempton,	S. side, 209 ft. west of Rockdale av.
"	N. side, 31.7 ft. west of old town line.
"	S. side, 32 ft. west of old town line.
Lincoln,	Northeast corner Arnold.
Linden,	S. side, 11 ft. west of Purchase.
"	N. side, 11 ft. west of Purchase.
"	Southwest corner Pleasant.
"	Southeast corner County.
Maxfield,	S. side, 124 ft. east of Second.
"	N. side, 6 ft. east of Park.
"	S. side, 5 ft. east of Park.
Mt. Pleasant,	W. side, 810 ft. north of south line Peckham.
"	E. side, 814 ft. north of south line Peckham.
"	W. side, 123 ft. south of Fall River R. R.
"	E. side, 13 ft. south of angle, south of F. R. R. R.
Parker,	N. side, 22 ft. west of east line Summer.
Pearl,	Northwest corner of Purchase.
Penniman,	S. side, 12 ft. west of Purchase.
"	N. side, 14 ft. west of Purchase.
"	N. side, 13 ft. east of State.
"	S. side, 7 ft. east of State.
"	S. side, 6 ft. west of County.
Pleasant,	W. side, 95 ft. north of Sycamore.
Pope,	S. side, 28 ft. west of Purchase.
Purchase,	Southeast corner of Pearl.
"	Northeast corner of Pearl.
"	E. side, 64 ft. north of Pearl.
"	W. side, 228 ft. north of Linden.
Reynolds,	W. side, 14 ft. south of Clark.
Rivet,	Northwest corner First.
"	S. side, 10 ft. west of First.
"	Southwest corner Juniper.
Robeson,	S. side, 12 ft. west of Cedar.
Rockdale,	At head of Parker.
Rockland,	Southwest corner Acushnet av.
Second,	E. side, 196 ft. north of Potomska.
"	E. side, 226 ft. north ot Grinnell.
"	W. side, 109 ft. north of Cannon.
"	E. side, 113 ft. north of Cannon.
Shawmut,	W. side, 400 ft. north of Durfee.
"	E. side, 460 ft. north of Durfee.
Shawmut av.,	W. side, 370 ft. north of Topham.
Sherman,	S. side, 139 ft. east of Bonney.
"	N. side, 120 ft. east of Bonney.
State,	E. side, 7 ft. south of Hazard.
Sycamore,	N. side, 7 ft. west of Pleasant.
Thomas,	E. side, 71 ft. north of Sycamore.
Wamsutta,	N. side, 16 ft. west of Front.
"	N. side, 276 ft. west of Front.
"	N. side, 465 ft. west of Front.

List of Eyeholes—*Concluded.*

Name.	Location.
Wamsutta,	N. side, 610 ft. west of Front.
Water,	E. side, 3 ft. north of Cove.
"	W. side, 9 ft. north of Cove.
"	W. side, 100 ft. north of Potomska.
"	W. side, 236 ft. north of Grinnell.
"	E. side, 249 ft. north of Grinnell.
"	E. side, 257 ft. north of Grinnell.
"	W. side, 74 ft. north of Cannon.
"	E. side, 75 ft. north of Cannon.
"	W. side, 153 ft. north of Walnut.
"	E. side, 162 ft. north of Walnut.
Weld,	S. side, 59 ft. east of Bowditch.
"	N. side, 106 ft. east of Purchase.
"	N. side, 67 ft. west of Pleasant.
Willis,	N. side, 112 ft. east of Summer.

List of Manholes.

Name.	Ventilating M. H.	Solid Iron Cover.	Wooden Cover.
Acushnet av.,	61 ft. south of Blackmer.		
"	2 ft. south of Rockland.*		
"	1 ft. south of South.		
"	206 ft. north of Grinnell.		
"	178 ft. north of Walnut.		
"	5 ft. south of Pope.		
"	11 ft. north of Merrimac.		
"	225 ft. s. of Wamsutta, 17 ft. w. of e. line Ac. av.		
"	109 ft. s. of Wamsutta, 17 ft. w. of e. line Ac. av.		
"	245 ft. north of Wamsutta.		
"	483 ft. north of Wamsutta.		
"	754 ft. north of Wamsutta.		
"	5 ft. n. of s. line Logan, 31 ft. w. of e. line Ac. av.		
Allen,	29 ft. east of west line Orchard.		
Arnold,	On east line Orchard.		
"	11 ft. east of west line Cottage.		
"	137 ft. w. of Chancery, 17 ft. s. of n. line.		
"	3 ft. west of east line Tremont.		
Ash,	4 ft. north of Bedford.		
"	19 ft. south of north line Hawthorn.		
"	9 ft. south of Arnold.		
Atlantic,	451 ft. south of Union.		
Austin,	41 ft. east of Shawmut av.		
Babbitt,	4 ft. east of west line Dartmouth.		
"	3 ft. east of west line Field.		
Bedford,	17 ft. east of west line Acushnet av.		
"	7 ft. west of east line County.		

Blackburn,	198 ft. north of Cedar Grove.	
Blackmer,	90 ft. east of Front.*	
"	20 ft. east of west line Water.	
"	48 ft. east of County.	
Bonney,	7 ft. north of south line Rivet.	
"	49 ft. south of Thompson.	
"	50 ft. south of Rockland.	
"	9 ft. north of south line Fair.	
"	Middle of Washington.	
"	Middle of Grinnell.	
"	8 ft. south of Forest.	
Bowditch,	15 ft. south of Weld.	
"	In angle north of Weld.	
"	2 ft. north of south line Cedar Grove.	
"	50 ft. south of south line Coggeshall.	
Bullock,	125 ft. south of south line Durfee.	
Campbell,	2 ft. west of east line State.*	
"	97 ft. east of Cedar.	
"	4 ft. west of east line Cedar.	
"	4 ft. east of west line Shawmut av.	
Cannon,		15 ft. w. of e. line Acushnet av.
Cedar,	90 ft. north of north line Middle.	
"	18 ft. n. of s. line North, 21 ft. e. of w. line Cedar.	
"	22 ft. north of Robeson.	
Cedar Grove,	On east line Blackburn.	
"	4 ft. east of County.	
Chestnut,	11 ft. north of Parker.	
Clark,	6 ft. west of Purchase.*	
"	On west line State.	
Clinton,	64 ft. west of Cottage.*	
Coffin av.,	1 ft. east of west line Bowditch.	
Coffin,	320 ft. east of Water.	

*Covered.

List of Manholes—*Continued.*

Name	Ventilating M. H.	Solid Iron Cover.	Wooden Cover.
Coffin,			15 ft. west of east line Water.
Coggeshall,	695 ft. east of Rock.		
"	7 ft. east of west line Rock.*		
"	4 ft. east of west line Front.		
"	On east line Acushnet av.*		
Cottage,	2 ft. north of Allen.		
"	43 ft. south of Union.		
"	8 ft. north of Locust.*		
County,	52 ft. south of north line Cove road.		
"	2.80 ft. north of south line Cove street.		
"	2.19 ft. north of north line Rivet.		
"	9 ft. north of south line Sherman.		
"	17 ft. north of south line Clinton.*		
"	156 ft. north of Linden.		
"	320.20 ft. south of south line Clark.		
"	151 ft. south of Coggeshall.		
"	3 ft. south of north line Coggeshall.		
"	228 ft. south of Sawyer.		
Court,	4 ft. east of Florence.		
"	453 ft. west of Florence.		
Cove road,	3.80 ft. east of west line Margin.		
Crapo,	18 ft. north of Mosher.*		
"	100 ft. north of Katharine.		
"	On south line Rivet.		
"	15 ft. south of Thompson.*		
"	14 ft. south of Rockland.		
Dartmouth,	26 ft. south of Oak.		

Dartmouth,	3 ft. north of south line Hickory.		
Division,	34 ft. east of Second.		
"	4 ft. west of County.		
Durfee,	11 ft. west of Mt. Pleasant.		
Elm,	On west line Water.		
"	9 ft. west of east line Second.		
"	8 ft. west of east line Purchase.		
"	14 ft. east of west line Sixth.		
"	9 ft. west of east line Eighth.		
"	9 ft. west of east line County.		
"	26 ft. west of Park.		
Fifth,	5 ft. west of east line, middle of Russell.		
"	123 ft. south of Madison.		
First,	134 ft. north of Potomska.		
Fourth,	8 ft. w. of e. line Fourth, 21 ft. n. of s. line Russell.		
"	88 ft. s. of Madison, 15 ft. w. of e. line Fourth.		
Front,	202 ft. south of Blackmer.		
"	5 ft. south of Blackmer.		
"	76 ft. north of Potomska.		
"	380 ft. north of Potomska.*		
"	8 ft. south of South.		
"	225 ft. south of Grinnell.		
"		33 ft. n. of Grinnell.*	
"		297 ft. s. of Howland.*	
"		105 ft. s. of Howland.*	
"			3 ft. south of School.
"	300 ft. south of Coggeshall.*		
Fruit,	On west line Juniper.		
"	Middle of Hemlock.		
"	On west line Mulberry.		
"	On east line Dartmouth.		
Gifford,	506 ft. east of Water.		

*Covered.

List of Manholes—*Continued.*

Name.	Ventilating M. H.	Solid Iron Cover.	Wooden Cover.
Grape,	183 ft. west of Oak.		
"	481 ft. west of Oak.		
"	806 ft. west of Oak.		
Green,	112 ft. south of Bedford.		
Griffin,	113 ft. east of Acushuet av.*		
Grinnell,		2 ft. east of Water.	
"		On east line First.	
"		On east line Second.	
"		On e. line Acushnet av.	
"		3 ft. east of Fourth.	
"		1 ft. east of Fifth.*	
"		4 ft. east of County.	
"	14 ft. west of Crapo.		
Hall,	119 ft. south of Rockland.		
Hawthorn,			106 ft. west of Ash.*
"	286 ft. east of Tremont.		
"	264 ft. west of Brigham.		
Hazard,	3.60 ft. east of west line Purchase.		
Hickory,	20 ft. east of west line Harrison.*		
High,			8 ft. w. of e. line Second, 6 ft. s. of n. line High.
Hillman,			26 ft. w. of e. line Second.
"			35 ft. east of Purchase.
"	Middle of Chestnut.		
"	25 ft. west of east line Park.		
"			20 ft. e. of w. line Newton.
"	4 ft. west of east line Florence.		

Hillman,	4 ft. west of east line Hunter.		
Howard,	311 ft. south of Coggeshall.		
Hyacinthe,	256 ft. north of north line Rivet.		
Independent,	62 ft. west of County.		
James,	123 ft. south of Union.		
Katharine,	58 ft. west of County.		
Kempton,	10 ft. s. of n. line, 112 ft. e. of Purchase.		
"			On w. line Purchase, 11 ft. n. of s. line Kempton.
"	1 ft. east of west line Cottage.		
"	4 ft. east of west line Cedar.		
"	118 ft. east of Newton.		
Larch,	4 ft. east of west line Juniper.		
"	4 ft. west of east line Dartmouth.		
Liberty,	5 ft. north of south line Elm.		
"	125 ft. south of Kempton.		
Linden,	2 ft. west of Purchase.		
"	8 ft. east of west line Pleasant.*		
"	1 ft. east of County.*		
"	40 ft. east of Ashland.		
Locust,	20 ft. west of east line Richmond.		
Logan,	197 ft. east of Purchase.*		
"	8 ft. east of Purchase.		
Madison,			14 ft. e. of w. line Water.
"	9 ft. west of east line Second.		
"			8 ft. w. of e. line Fourth.
"	12 ft. west of east line County.		
Maitland,	281 ft. west of Cedar.		
Maple,		3 ft. west of Cottage.	
Margin,	4.40 ft. north of south line Cove street.		
Marvin,	94.20 ft. east of east line Acushnet av.		
Maxfield,			8 ft. w. of e. line Second.

*Covered.

List of Manholes—*Continued.*

Name.	Ventilating M. H.	Solid Iron Cover.	Wooden Cover.
Maxfield,			7 ft. w. of e. line Purchase.
"			7 ft. w. of e. line State.*
"			9 ft. w. of e. line County.
"	Middle of Chestnut.		
"	3 ft. west of Cedar.		
"	18 ft. east of west line Chancery.		
Merrimac,	254 ft. east of Acushnet av.		
"	23 ft. east of Acushnet av.		
Middle,	12 ft. west of Front.		
"			6 ft. w. of e. line Water.
"			7 ft. w. of e. line Second.
"	7 ft. west of east line Purchase.		
"	5 ft. west of east line Sixth.*		
"			8 ft. w. of e. line County.
"	8 ft. west of east line Summer.		
Mill,			7 ft. w. of e. line Hill.*
"			13 ft. w. of e. line Cedar, 1 ft. n. of s. line Mill.
"			17 ft. w. of e. line Cedar, 20 ft. s. of n. line Mill.
"	4 ft. west of Park.		
"	4 ft. west of east line Rockdale av.		
Newton,	185 ft. north of Elm.*		
"	21 ft. south of south line Hillman.		
North,	10 ft. east of Chestnut.		
Oak.	41 ft. west of Dartmouth.		
"	54 ft. west of Harrison.		

Oak,	74 ft. west of Clay.	
"	191 ft. north of Grape.	
"	33 ft. south of Allen.	
Orchard,	13 ft. n. of s. line No. 4 Mill road.	
"	146 ft. s. of s. line No. 4 Mill road.	
"	226 ft. s. of s. line No. 4 Mill road (stone on top).	
"	231 ft. s. of s. line No. 4 Mill road.	
"	Middle of Grinnell.	
Page,	113 ft. north of Grape.	
"	50 ft. south of Allen.	
Park,	23 ft. north of Arnold.	
"	186 ft. south of Union.	
"	7 ft. north of Court.	
"	7 ft. south of Parker.	
Pearl,	1 ft. east of Acushnet av.	
"		
Penniman,	5 ft. west of Purchase.*	5 ft. e. of w. line Purchase.
"	10 ft. east of State.	
"	6 ft. west of east line County.	
Pope,	335 ft. east of Chestnut.	
Potomska,	7 ft. west of Water.*	
"	57 ft. east of Acushnet av.	
"	25 ft. east of Fourth.	
Prospect,	42 ft. south of Grinnell.*	
Purchase,	215.20 ft. north of north line Union.	
"	2 ft. south of Franklin.	
"	9.50 ft. north of south line Austin.	
"	67.20 ft. south of south line Linden.	
"	On north line Linden.	
"	180 ft. s. of Logan, 18 ft. w. of e. line Purchase.	
"	9 ft. south of Logan.	
"	89 ft. north of Weld.	

*Covered.

LIST OF MANHOLES—*Continued.*

Name.	Ventilating M. H.	Solid Iron Cover.	Wooden Cover.
Purchase.	8 ft. north of south line Clark.*		
"	7 ft. north of south line Penniman.*		
"	On south line Cedar Grove.*		
"	316 ft. north of Cedar Grove.		
"	434 ft. north of Sawyer.		
Richmond,	119 ft. south of Locust.		
Rivet.	79 ft. e. of Ac. av., and 14 ft. s. of n. line Rivet.		
"	97 ft. east of Fourth.		
"	13 ft. e. of w. line Fourth and 16 ft. s. of n. line Rivet.		
"	611 ft. east of Crapo.		
"	300 ft. east of Crapo.		
"	2 ft. west of east line Juniper.		
"	On east line Dartmouth.		
Robeson,	340 ft. east of west line Ashland.		
Rock.	237 ft. south of south line Sawyer.		
Rockland,	10 ft. east of west line Fourth.		
"	2 ft. east of County.		
"	47 ft. west of Bonney.		
"	7 ft. east of west line Orchard.		
"	442 ft. east of Lombard.		
"	84 ft. east of Lombard.		
"	41 ft. east of Dartmouth.		
Russell,			25 ft. w. of e. line County.*
Sawyer,	4 ft. east of west line Rock.		
"	310 ft. west of Rock.		
"	4 ft. west of east line County.*		

Sawyer,	5 ft. east of west line Bowditch.	
School,	41 ft. east of west line Front.	
"	On east line First.	
"	4 ft. west of east line Second.	
"	4 ft. west of east line Fourth.	
"		
"	1 ft. east of east line County.	9 ft. w. of e. line Sixth.*
Sears,	5 ft. south of north line Fair.	
Second,	208 ft. south of Potomska.	
Shawmut av.,	7 ft. south of Locust.	
"	2.90 ft. south of north line Durfee.	
Sherman,	101 ft. east of Bonney.	
Short,	54 ft. south of Allen.	
Smith,	3 ft. west of east line County.	
South,	8 ft. west of Front.	
"	20 ft. west of east line Water.	
"	19 ft. west of east line First.	
"	18 ft. west of east line Second.	
"	55 ft. east of Acushnet av.	
Spring,	3.25 ft. west of east line County.	
Spruce,	208 ft. north of Parker.	
"	192 ft. south of south line Locust.	
Stone,	53 ft. south of Allen.	
Sycamore,	On east line Walden.	
"		
"		9 ft. w. of e. line County.*
"	4 ft. east of west line Cedar.	18 ft. w. of e. line Chestnut.*
"	4 ft. east of west line Ash.	
Tremont,	101 ft. south of south line Arnold.	
Union,	14 ft. west of east line Front.	
"	8 ft. west of east line Water.	
"	5 ft. west of east line Purchase.	

*Covered.

List of Manholes—*Concluded.*

Name.	Ventilating M. H.	Solid Iron Cover.	Wooden Cover.
Union,	8 ft. west of east line Sixth.*		
"	7 ft. west of east line Eighth.*		
"	8 ft. west of east line County.*		
"	14 ft. west of east line Cottage.*		
"	1 ft. west of west line Ash.		
"	136 ft. east of Tremont.		
"	On west line James.		
"	47 ft. east of Armour.		
"	25 ft. west of east line Sisson.		
Walnut,			7 ft. w. of e. line Water.*
"	7 ft. west of east line Second.		
"	8 ft. west of east line Fourth.		
"			9 ft. w. of e. line Fifth.
"			9 ft. w. of e. line Seventh.
"	3 ft. west of east line County.		
Wamsutta,	5.40 ft. west of east line Purchase.		
Ward,	On south line Allen.		
Warwick,	125 ft. south of Rockland.		
Washburn,	200 ft. west of Front.*		
"	9.50 ft. east of Acushnet av.		
Washington,	102 ft. east of Dartmouth.		
Water,	35.70 ft. south of north line Gifford.		
"	3 ft. south of north line Delano.		
"	267 ft. south of Potomska.		
"	16 ft. north of south line Potomska.		
"	4 ft. south of north line Leonard.		

Water,			15 ft. n. of s. line Howland, 15 ft. w. of e. line Water.
"			16 ft. n. of s. line Howland, 18 ft. e. of w. line Water.*
William,	On east line County.		
Willis,	20 ft. east of west line Acushnet av.		
Willow,	318.70 ft. east of Cedar.		
Wilson,	7 ft. south of Durfee.		
Winsor,	46 ft. west of County.		

*Covered.

In Board of Aldermen,
June 23, 1892.

Received, and ordered printed in the City Documents, and sent down for concurrence.

DANIEL B. LEONARD,
City Clerk.

In Common Council,
June 23, 1892.

Concurred.

WM. A. MACKIE,
Clerk.

1892—CITY DOCUMENT No. 11.

REPORT

OF THE

BOARD

OF

OVERSEERS OF THE POOR

OF THE

City of New Bedford,

FOR THE YEAR 1891.

NEW BEDFORD:
E. ANTHONY & SONS, Incorp., CITY PRINTERS.
1892.

In Board of Aldermen,
January 28th, 1892.

Received, ordered printed in the City Documents, and sent down for concurrence.

D. B. LEONARD,
City Clerk.

In Common Council,
1 mo. 28, 1892.

Concurred.

WM. A. MACKIE,
Clerk.

Members of the Board.

ORRICK SMALLEY,
THOMAS H. KNOWLES,
JAMES E. STANTON.

Officers of the Board.

ORRICK SMALLEY,
Chairman and Secretary.

ELLA F. BUCKLYN,
Clerk to the Board.

JOHN T. BULLARD,
Physician to the Board.

PELEG S. MACY,
Superintendent of Alms-house.

Mrs. PELEG S. MACY,
Matron of Alms-house.

Rev. JAMES MITCHELL,
Chaplain of Alms-house.

SAMUEL DAMMON,
Superintendent of Wood and Coal Yard.

REPORT.

To His Honor the Mayor, and City Council of the City of New Bedford:

GENTLEMEN,—The Board of Overseers of the Poor of New Bedford herewith submit the fifth report, under the the Act of the Legislature, June 22, 1886.

The tables appended are a part of this report, and represent in detail the receipts and expenditures, together with statistical information relating to the department.

The course pursued in rendering relief this year has been in keeping with the two years past, namely, personal investigation of the conditions and surroundings of the applicants before granting their request. This, of course, has required much time and patience. It has, nevertheless, made it very satisfactory to the relief officer, inasmuch as it has enabled him to render assistance understandingly, so that the worthy and deserving poor have not been overlooked or neglected, and the unworthy detected in their efforts to deceive.

The poor departments of State, cities and towns, which in former years were of secondary consideration, have become, by the rapid increase in the population, by emigration and otherwise, a subject of vital importance to those who have the matter under consideration.

The expenses to our city for the support of the insane and feeble-minded has increased from $3263.56 in 1879, to $8465.83 in 1889. This amount the Overseers of the Poor are called upon to pay out of the appropriation made

for the poor, and usually the presentation of the bill for support is the first information they have of the commitment of the individual. As this expense is mostly beyond the control of the overseers, it seems there should be a separate appropriation to meet that expense; or that the secretary of the Board should be notified and consulted in every case previous to the commitment, in order that he may ascertain the settlement of the person to be committed; and furthermore, to know the condition of the individual, for in cases heretofore committed some of them could have been cared for at the city institutions as well as at the State institution, and at a very much less cost to the city.

There is an increase in the net expenses this year over those of 1890, but no more than was expected from the increased demand made upon the department. The increased expense for the year 1891 would have been greater but for the county commissioner and probationary court officer, who are ever ready to assist the families bereft of support, by liberating the fathers and husbands incarcerated for drunkenness, who give reasonable evidence of future sobriety and care for their families.

The usual good management of the Alms-house continues. The truant school having been removed from under the charge and support of the Alms-house will reduce the credits from that source; also thirty-five tons less hay to sell this year than last, will reduce the credit from that source. Other products of the farm are about the same as previous years. It has cost more to run the Alms-house this year than last, as the tables will show.

The net expense for 1891 is as follows:

Appropriation,	$30,000.00
Balance to credit,	605.18
Net expense,	$29,394.82

We take pleasure in reporting the faithful services rendered the department by its employes; and in conclusion, we desire to express our thanks to your honorable body for your readiness to assist us in all the matters of interest to the department.

Respectfully submitted.

ORRICK SMALLEY,
THOMAS H. KNOWLES,
JAMES E. STANTON,
Overseers of the Poor
of New Bedford.

FINANCIAL STATEMENT, 1891.

DR.

To amount of annual appropriation,		$30,000.00
Received from State, for support of paupers,		3,259.52
Received from cities and towns, for support of paupers,		3,028.68
For board of soldiers,		202.00
For board of lunatics,		765.10
Miscellaneous,		43.21
City Alms-house credits:		
Amount from Fire Department,	$1,123.85	
Police Department,	91.25	
Sale of produce,	119.55	
Truant school,	927.37	
Board of paupers,	292.46	
Board of soldiers.	272.99	2,827.47
		$40,125.98

CR.

By amounts expended, as per monthly audits, as follows:

MONTHS.	Outside Relief.	Lunatic Hospitals and Feeble Minded.	Cities and Towns.	Alms-house.	Totals.
January,	$2,000.14	$1,976.11	$264.91	$785.50	$5,026.66
February,	1,882.01	64.07	15.80	805.18	2,767.06
March,	1,698.73		148.21	968.30	2,815.24
April,	1,794.07	1,772.62	51.25	1,272.28	4,890.22
May,	1,448.75		44.93	1,017.89	2,511.57
June,	1,391.10			1,036.53	2,427.63
July,	1,186.58	1,760.86	279.91	865.15	4,092.50
August,	1,317.06	136.18		904.22	2,357.46
September,	1,446.74		38.61	939.24	2,424.59
October,	1,150.24	1,858.07	70.90	849.70	3,928.91
November,	1,867.04			903.63	2,770.67
December,	1,841.96		57.00	1,609.33	3,508.29
Totals,	$19,024.42	$7,567.91	$971.52	$11,956.95	$39,520.80

Balance to credit, $605.18.

EXPENDITURE IN DETAIL FOR OUTSIDE RELIEF IN 1891.

MONTHLY AUDITS.	Groceries.	Lunatic Hospitals.	Cities and Towns.	Cash Orders.	Salaries and Travel.	Physician and Medicine.	Burials.	Boots and Clothing.	Transportation.	Horse-hire.	Office Expense.	Rents.	Board Outside.	Wood and Coal Yard.	Totals.
January,	$1,015.00	$1,976.11	$264.91	$136.00	$153.54	$135.00	$48.00	$5.75	$16.83				$2 25	$487.77	$4,241.16
February,	918.00	64.07	15.80	113.45	149.99	135.00	56.00	6 50	2.25	$10.25	$9.78		32.79	448.00	1,961.88
March,	1,004.25		148.21	119.50	153.99	135 00	38.00		23.41		31.35	$6.00		187.23	1,846.94
April,	881.18	1,772.62	51.25	141.00	250.69	135.00	93.00	3.00	4.15				23.00	263.05	3,617.94
May,	745.30		44.93	104.10	150.34	140.00	103.00		148.51		.30			57.20	1,493.68
June,	836.25			132 50	151.89	146.00	35.00	19 35	1.90		6.00		6.86	55.35	1,391.10
July,	612.50	1,760.86	279.91	107.00	150.24	137.00	48.00	13 40	28.25		.90	8.00	32.89	48.40	3,227.35
August,	634.75	136.18		106.81	250.74	135.00	53.00		76.76		15.80			44.20	1,453.24
September,	784.50		38 61	96.50	152.09	135.00	157.00		34.00	10.35	29.00			48 30	1,485.35
October,	619.50	1,858.07	70 90	97.50	151.49	135.50	73.00		1.55				7.50	64.20	3,079.21
November,	751.75			122 16	150.74	138.50	76.00	11.48	100 05	10.00	16.56			489.80	1,867.04
December,	1,003.00		57.00	90.25	252.36	135.00	118.00	11.38	83.35	1.00	1.10	8.00		138.52	1,898.96
	$9.805.98	$7,567 91	$971.52	$1,366.77	$2,118.10	$1,642.00	$898.00	$70 86	$521.01	$31.60	$110.79	$22.00	$105.29	$2,332.02	$27,563.85

DETAILED EXPENDITURE AT THE ALMS-HOUSE, 1891.

Months.	Flour and Grain.	Dry Goods and Clothing.	Beef, Fish, &c.	Groceries.	Shoes, Hats, and Leather.	Furniture and Crockery.	Hardware.	Fuel.	Repairs on Premises.	Carriages, Repairs and Blacksmithing	Supt., Labor, and Nursing.	Medicines.	Oils, Paints, &c.	Dressing.	Miscellaneous.	Totals.
January,	$98.03	$1 00	$85.63	$150.09	$15.10	$8.77		$60.71	$6.75	$18.58	$334.84				$6.00 { Globe Gas Light. / Dentistry. }	$785.50
February,	123.02	30.28	68.50	164.86	6 00	9.66		42.07	5.75		323.81	$31.23				805.18
March,	130.42	16.29	72.76	187.75	11.08	8.30	$15.45	57.31	32 89	63 52	329.69	25.96	$9.38		7.50 (Hitching horse.)	968.30
April,	197.88	39 00	83.40	239.92	8.00	31.17		54.47	43.36	42.75	310.98	21 35			200.00 (Horse)	1,272 28
May,	175.10		86.98	251 09		40.24	.75	60.76	4 72	15.50	331.40	10.00	4.10		37.25 (Vet'ary surgeon.)	1,017.89
June,	117.07	48.79	75.05	165.46	10.53	8.13	35.02	34.86	72.25	92 41	299 56	42.40			35.00 { Telephone. / " Mercury." / Hitching horse. }	1,036.53
July,	129.79	21.19	72.64	128 97	25.63	16.81	15.61	21.53	4.52	6.55	418.21	3.70				865.15
August,	148 18	7.79	87 66	144.15	22.73		4.20	112.82	7.90		336.19	6 60	5 00		21.00 { Use of oxen. / " Standard." }	904.22
September,	144.94	11.49	84.91	120 54	3.75	21.02	29.10	40.61	3.00	77 54	316.69	49.75			35 90 { Ice / Hitching horse. }	939.24
October,	175.04	20.09	82.15	188.88	7.25	21.87		30 86	21.30		294.76	2.30			5.20 (Globe Gas Light.)	849.70
November,	199.04	14.17	72.75	142.42	19.97	.88	2.40	75.04	24.71		336.26	9.79	6.20			903.63
December,	150.73	90.38	72.22	178.89	20.15	10.43	25.76	267.93	102.18	14.50	317.91	32.86		$296.39	29.00 { Telephone. / Hitching horse. }	1,609.33
	$1,789.24	$300.47	$944.65	$2,063.02	$150.19	$177.28	$128.29	$858.97	$329.33	$331.35	$3,950 30	$235 94	$24.68	$296 39	$376 85	$11,956.95

STATISTICS OF OUTSIDE RELIEF.

Gross cost of aid to persons outside of Alms-house, 1891,	$27,563.85
Receipts from various sources,	7,298.51
	$20,265.34
Amount paid for support of persons in State lunatic hospitals, and in other cities and towns chargeable to this city,	8,539.43
Leaving as net expenditure in aid of poor residing here, including State paupers and those chargeable to other cities and towns.	$11,725.91

Number of families aided in 1891,	626	
" " settlement here,	334	
" " settlement elsewhere,	104	
" " State paupers,	188	
Number of persons aided,		1,646
" " settlement here, males 314, females 548.		
" " settlement elsewhere, males 116, females 134.		
" " State paupers, males 257, females 277.		
Average cost of aid to each family, yearly,		$18.73
Average cost of aid to each person, yearly,		7.12

TRANSPORTATION.

Number of families sent to their homes,	34
Number persons sent to their homes,	73
Number of persons sent to State Alms-house,	16

BURIALS.

Males 50, females 37,	87

INSANE.

Number of insane at asylums during the year, males 23, females 28,		51
Remaining at city's expense, Dec. 31, 1891,		43
At Taunton Lunatic Hospital,	40	
Westborough Insane Hospital,	2	
Worcester Lunatic Hospital,	1	

PAUPERS AIDED ELSEWHERE.

But having settlement here (exclusive of lunatics,) families 25, persons 52.

Amount paid for their support in 1891,	$971.52

ALMS-HOUSE REGISTER.

Number remaining, Dec. 31, 1890, 79

Months.	Admitted.	Discharged.	Remaining.
January,	10	9	80
February,	2	1	81
March,	6	15	72
April,	9	10	71
May,	5	17	59
June,	5	6	58
July,	9	5	62
August,	13	8	67
September,	10	13	64
October,	10	9	65
November,	14	7	72
December,	16	16	72

Whole number during the year,	188
Discharged during the year,	116
Remaining, December 31, 1891,	72
Average daily number,	71

PRODUCTS OF FARM FOR 1891.

Hay,	92 tons.
Straw,	5 "
Potatoes,	340 bushels.
Oats,	95 "
Barley,	62 "
Beets,	116 "
Carrots,	14 "
Onions,	11 "
Turnips,	190 "
Corn,	56 "
Parsnips,	6 "
Peas,	15 "
Beans,	8 "
Sweet corn,	340 doz. ears.
Pumpkins and squashes,	4,500 pounds.
Veal,	766 "
Pork,	7,980 "
Milk,	33,858 quarts.

SUMMARY.

Gross expenditure for the year,	$11,956.95
Credits,	2,827.47
	$9,129.48

Average yearly expense of each inmate, including truants and persons committed to the Work-house, 21,	$99.23
Average monthly expense,	8.27
Average weekly expense,	1.91

WORK-HOUSE REGISTER.

Number remaining, Dec. 31, 1890, 10

Months.	Admitted.	Discharged.	Remaining.
January,	0	4	6
February,	1	0	7
March,	4	3	8
April,	7	3	12
May,	2	3	11
June,	6	4	13
July,	3	1	15
August,	5	2	18
September,	6	2	22
October,	3	5	20
November,	5	1	24
December,	8	4	28

Whole number during the year, 60
Discharged during the year, 32
Remaining, December 31, 1891, 28
Average daily number, 10

TRUANT SCHOOL REGISTER.

Whole number remaining, Dec. 31, 1891, 14

Months.	Admitted.	Discharged.	Remaining.
January,	0	0	14
February,	1	1	14
March,	0	1	13
April,	0	4	9
May,	1	0	10
June,	1	0	11
July,	0	1	10
August,	1	2	9
September,	0	9	0

School transferred to Walpole.

Whole number during the 9 months, 18
Discharged during the 9 months, 18
Remaining, December 31, 1891, 0
Average daily number, 11

REPORT

OF THE

Physician to the Board of Overseers of the Poor,

For the year ending January 4, 1892.

During the year 1891, acting as physician to your Board, I have made 1369 house visits, received 738 office visits, and visited the Alms-house 92 times.

I have attended 12 cases of confinement, and 49 patients have died.

At the Alms-house there have been ten deaths and two births. There has been but very little illness at this institution during the year, which I think is accounted for by the excellent sanitary condition of the house and the good care the inmates receive.

Much of the sickness among the poor can be accounted for by their own ignorance of the simple laws of healthful living, to which may be added, as an important factor, the dirty condition of the badly drained tenements in which many of them live.

My thanks are due to the Board and its efficient clerk for the many kindnesses and courtesies they have extended to me, and also to Dr. Wm. C. Sheehy, who during my illness has filled my position so satisfactorily.

Respectfully submitted.

JOHN T. BULLARD, M. D.

REPORT

OF THE

Superintendent of the City Wood and Coal Yard.

GENTLEMEN, — There has been received at the yard, during the year ending December 31, 1891, 150 cords 3 feet 1 inch of wood, and 220 tons 980 pounds of coal.

Have delivered 269¾ tons of coal and 85 cords 1 inch of wood, on 1479 orders.

All of which is respectfully submitted.

SAMUEL DAMMON.

1892—CITY DOCUMENT No. 12.

ANNUAL REPORT

OF THE

Superintendent of Burial Grounds

FOR 1891.

NEW BEDFORD:
E. ANTHONY & SONS, Incorp., CITY PRINTERS
1892.

REPORT.

To the Hon. Charles S. Ashley, and the City Government of New Bedford.

The Superintendent of Burial Grounds, as required by the city ordinances, hereby submits his first annual report.

When elected to the office last April, I found the following cemeteries under my charge, viz: Oak Grove and Rural, with Pine Grove at the Head of the River, and the old unused ground on South Second street.

I found very few lots for sale in Rural Cemetery, and in the past year have laid out, and partially cleared away quite a number of sections. The stone wall which was started last year along the southeast line of the new grounds has been finished as far as the land was cleared. The wall around the pond has been pointed up, and last summer there were times when the pond was almost dry owing to the brook having been cut off by the sewer, so that there will have to be some way provided so that the pond can be filled by our city water.

A new entrance has been opened from Dartmouth

street for all the heavy teaming. There has been five men at work from April until December on the avenues, clearing up the same. The Oak Grove cemetery this year has had four men at work from April until November, keeping the avenues in proper condition. The sections that have been surveyed are about all sold, and this year will require new sections laid out. Acushnet water should be carried further north into the new part. A stone wall should be built on the east line of the new part.

There is need for new tombs in both cemeteries, but there is urgent need for one in Oak Grove, as there is only accommodations for five bodies in the public tomb and I hope the city will provide for the same. I would also recommend that the city clear and grade all lots in Rural and Oak Grove cemeteries before offering them for sale. In that way we would have much more attractive grounds.

The cemetery on Second street has been cleared up twice this season and the fence has been painted, incurring an expense of about one hundred and twenty-five dollars. The Pine Grove has had nothing done there the past year, but I hope the city will accept and lay out a street from Tarkiln Hill road to the cemetery, and there ought to be spent about five hundred dollars on the grounds in laying out avenues. The city has accepted an ordinance making the sextons of Rural and Oak Grove Cemeteries salaried officers and I think the citizens appreciate the same.

Number of lots under perpetual care March 1, 1892,

Rural	111
Oak Grove	82
Pine Grove	1
Total	194

an increase over 1890 of 26.

There was due from interest April 1, 1891 for perpetual care,

Rural	$858.65
Oak Grove	365.02
Pine Grove	6.43
Friends Private	10.00
Total	$1240.10

There was expended for perpetual care in 1891,

Rural	$450.10
Oak Grove	290.32
Pine Grove	1.80
Total	$742.22

leaving a balance unexpended January 1, 1892, $497.88.

Lots to the value of $1345 were sold in Oak Grove cemetery from April 14, 1891 to March 1, 1892, and in Rural cemetery for the same period $1400, making a total of $2745.

The number of interments from January 1, 1891, to January 1, 1892, were Oak Grove 239, Rural 273. Total 512.

At Pine Grove cemetery there have been no interments and no sale of lots since I have been in office.

Respectfully submitted,

STEPHEN D. PEIRCE,

Supt. Burial Grounds.

New Bedford, Mass., March 1, 1892.

1892—CITY DOCUMENT No. 13.

ANNUAL REPORT

OF THE

INSPECTOR OF MILK AND PROVISIONS,

AND

ANIMALS INTENDED FOR SLAUGHTER,

FOR THE

YEAR ENDING DEC. 31, 1891.

NEW BEDFORD:
E. ANTHONY & SONS, Incorp., CITY PRINTERS.
1892.

In Board of Aldermen,
December 8, 1892.

Received, ordered printed in the City Documents, and sent down for concurrence.

D. B. LEONARD,
City Clerk.

In Common Council,
12th mo. 8, 1892.

Concurred.

WM. A. MACKIE,
Clerk.

REPORT.

New Bedford, Dec. 31st, 1891.

To His Honor the Mayor and the Board of Aldermen of the City of New Bedford:

Gentlemen, — The report of this office, for the year ending December 31st, 1891, is herewith respectfully submitted.

The main question occupying the attention of this office, and, to my satisfaction, that of our farmers and producers of milk, is the procuring for the citizens of New Bedford pure, wholesome milk. There is no person who realizes the value and great importance of pure milk, both as regards its food value and as a protection against disease, more especially among babes and young children, than the Inspector. His main duty is to procure this end by whatever method, provided it be honest and legitimate, that in his own experience and that of others who know the value of what they suggest, seems under the circumstances the most promising. The office was not created, as many over-zealous individuals appear to teach, for the mere and exclusive purpose of issuing complaints, but more particularly, if not entirely, for the purpose of securing for the masses pure and rich milk; and the actions of the Inspector have been governed by this motive.

The per cent. of adulterated samples of milk taken by the Inspector of New Bedford in the year 1887 was 22, while the per cent. of adulterated samples in the same number of samples taken in the year 1891 was only $2\frac{1}{2}$, and I think that these facts and figures bear out my state-

ment that the dealers and producers are equally interested in furnishing pure milk, and it is a fact that no such small per cent. of adulteration exists in the milk supply in any other city in this country.

The office is open at all hours, and is visited by the public in all matters relating to the question of milk and provisions, such as bringing samples for investigation and making complaints on various matters; as I never visit dwellings, the only information I have of the character of the family supply is from this source and investigation. No person need be in doubt about the purity of their milk, when a visit to the office provided by law for the use of the public will give all needed information and assistance. I have yet to receive the first complaint from any physician, and I have yet to meet a sample of milk which would produce sickness, or which was adulterated in any other form than by skimming and watering.

OPERATIONS OF THE YEAR.

Number of licenses granted, 286 at .50, $143.

Number of visits made and samples of milk inspected, 800.

Have also seized, condemned and destroyed three cows as being unfit for dairy purposes or for slaughter for food, and quarantined several others while sick, have investigated all complaints, and destroyed all provisions unfit for sale as food.

EXPENSE.

Salary,	$600.00
Office rent and light,	144.00
Advertising special notices,	21.10

Respectfully submitted,

DR. D. C. ASHLEY,

Inspector Milk, Provisions, etc.

ORDINANCES.

In the Year Eighteen Hundred and Ninety-One.

AN ORDINANCE

To Amend Section 6 of Chapter XIX. of the Ordinances of the City of New Bedford.

Be it ordained by the City Council of the City of New Bedford, as follows:

Section 1. Section 6 of Chapter XIX. of the City Ordinances is hereby amended by inserting after the words "public statutes" in the ninth and twenty-seventh lines thereof as printed, the words "and Chapter 186 of the Acts of 1884," so that said section shall read as follows:

Section 6. All sums now standing to the credit of the "Cemetery Fund" on the books of the City Treasurer, in accordance with the provisions of any former ordinance of this city, based upon Chapter two hundred twenty five of the Acts of the year 1870, shall continue to be held in accordance with the provisions of such ordinance. And all sums of money hereafter deposited with the City Treasurer in accordance with the provisions of Section 17, Chapter 82, of the Public Statutes, and Chapter 186 of the Acts of 1884, shall be credited to said existing account of "Cemetery Fund." And the City Treasurer shall keep in his office a book which shall contain a record of all the funds deposited, the date of each deposit, the name of the depositor, the name of the cemetery con-

taining the lot in connection with which the deposit is made, the number of said lot, and any other information which the Standing Committee of the Mayor and Aldermen on Burial Grounds may direct to have recorded therein. Every person who may hereafter deposit any money under the provisions of said section of the Public Statutes shall receive a certificate therefor from the City Treasurer in the following form:

CITY OF NEW BEDFORD,
Treasurer's Office, ——— 18—.

This is to certify that ——— ——— has this day deposited with me the sum of ——— dollars, the interest of which, at the rate of six per cent. per annum, is to be forever applied, in accordance with the provisions of Section 17, Chapter 82, of the Public Statutes, and Chapter 186 of the Acts of 1884, and of the ordinances of the city in respect thereof, for the lot numbered —— on the plan of the ——— Cemetery, deposited in the office of the City Clerk.

——— ———, City Treasurer.

SECTION 2. This ordinance shall take effect upon its passage.

IN BOARD OF ALDERMEN, Oct. 22, 1891.
Passed to be ordained.
CHAS. S. ASHLEY, Mayor.

IN COMMON COUNCIL, 10 mo. 22, 1891.
Passed to be ordained.
JOS. DAWSON, President.

Approved Oct. 23, 1891.
CHAS. S. ASHLEY, Mayor.

A true copy.
Attest: DANIEL B. LEONARD,
City Clerk.

In the Year One Thousand Eight Hundred and Ninety-One.

AN ORDINANCE

Relating to Buildings in the Fire Districts.

Be it ordained by the City Council of the City of New Bedford, as follows:

Section 1. There shall be appointed at the commencement of each municipal year, a joint standing committee to consist of two Aldermen and three members of the Common Council, to be called the Committee on Buildings in the Fire Districts, and said committee shall hold regular meetings as often as once a month.

Section 2. For the purpose of securing the City of New Bedford from damage by fire, two certain fire limits are hereby established, the boundaries of which are as follows:

First. Commencing at a point in the centre of South Second street at the central point of its intersection with Spring street; thence westerly in the centre of said Spring street to the central point of its intersection with Sixth street; thence northerly in the centre of Sixth street to the central point of its intersection with Middle street; thence easterly in the centre of Middle street to the central point of its intersection with North Second street; thence southerly in the centre of said North Second street and South Second street to the point of beginning.

No person shall erect or cause to be erected any building, or make or cause to be made any addition to any building already erected or in process of erection within

the fire limits hereby established, unless the same be constructed of brick, stone or iron, in the manner and of the materials, dimensions and upon the conditions herein set forth, except by the unanimous vote of the Committee on Buildings in the Fire Districts, and there shall have first been filed a duplicate copy of the plans and specifications under and by which the building or buildings or additions thereto are to be constructed, and shall have the approval of the Committee on Buildings in the Fire Districts and Inspector of Buildings endorsed upon the original and duplicate copy thereof.

All one-story buildings shall be constructed of brick or stone walls, which shall not be less than 8 inches solid thickness.

All two-story buildings shall be constructed of brick or stone walls, which shall not be less than 12 inches solid thickness for first story and 8 inches solid thickness for second story.

All three-story buildings shall be constructed of brick or stone walls, which shall not be less than 16 inches solid thickness for the first story, 12 inches solid thickness for the second story, and 8 inches solid thickness for the third story.

All four-story buildings shall be constructed of brick or stone walls, which shall not be less than 20 inches solid thickness for the first story, 16 inches solid thickness for the second story, 12 inches solid thickness for the third story, and 8 inches solid thickness for the fourth story.

All five-story buildings shall be constructed of brick or stone walls, which shall not be less than 24 inches solid thickness for the first story, 20 inches solid thickness for the second story, 16 inches solid thickness for the third story, 12 inches solid thickness for the fourth story, and 8 inches solid thickness for the fifth story.

All six-story buildings shall be of solid brick or stone

walls, which shall not be less than 28 inches thick for the first story; 24 inches thick for the second story; 20 inches thick for the third story; 16 inches thick for the fourth story; 12 inches thick for the fifth story, and 8 inches thick for the sixth story.

All partition walls between adjoining buildings shall be the same thickness as outside walls for each story as walls of buildings are required to be in the foregoing provisions, and shall extend at least two feet above the roofs of said adjoining buildings.

All buildings designed for use as stores shall have brick or stone partition walls to extend from the bottom of the cellar to the top of the second floor timbers.

All main partitions in school-houses shall be constructed of brick or stone of the same thickness in each story as is required herein with reference to thickness of walls of buildings in corresponding stories.

The roofs of all buildings erected or repaired within said limits (except in cases of what is commonly called and known as patching) shall be covered with fireproof material, which shall consist of copper, tin, tar and gravel, asbestos felting, slate, metallic shingles, terra cotta tiling or corrugated sheet iron.

All cornices and gutters shall be constructed of metal, and in no case shall wooden shingles or wooden cornices or gutters be placed upon any building erected or repaired within said limits.

All bay-windows and other projections erected, constructed or repaired within said limits shall be covered with sheet metal.

No person shall erect or cause to be erected or make or cause to be made any addition to any building erected or in process of erection within said limits unless he shall upon written application first obtain permission so to do, in accordance with the provisions of this ordinance.

Second. Outside of and expressly excluding the territory comprising the first fire limit the second fire limit shall comprise the territory herein described, viz. :—Commencing at the channel of the Acushnet river at a point easterly from the foot of Sawyer street, thence in a line running westerly through the centre of Sawyer street to the central point of its intersection with Purchase street; thence southerly in the centre of Purchase street to the central point of its intersection with Weld street; thence westerly in the centre of Weld street to the central point of its intersection with County street; thence southerly in the centre of County street to the central point of its intersection with Blackmer street; thence easterly in the centre of Blackmer street and in a line prolonged from the centre of said street to the channel of the Acushnet river; thence northerly by the channel of the Acushnet river to the point of beginning.

No person shall erect or cause to be erected any building, or make or cause to be made, any additions to any building already erected or in process of construction, within the said second fire limit, unless he shall upon written application first obtain permission so to do in accordance with the provisions of this ordinance, provided the building to be erected or the addition to be made covers more than 150 square feet of ground surface, and there shall have first been filed a duplicate copy of the plans and specifications under and by which the building or buildings or additions thereto are to be constructed and shall have the approval of the Committee on Buildings in the Fire District and Inspector of Buildings endorsed upon the original and duplicate copy thereof. All buildings erected and all additions to buildings made within the second fire limit shall be constructed of such material and in such manner as the committee on buildings in the fire district shall direct.

SECTION 3. All applications to build, alter, add to or move any building within said first fire limit, and all applications to build, alter, add to or enlarge any building already constructed or in process of construction, wherein such building, alteration, addition or enlargement covers more than 150 square feet of ground surface within the second fire limit, and all applications to move any building within said second fire limit shall be presented to the Inspector of Buildings and the Chief Engineer of the Fire Department, each of whom shall endorse thereon his approval or disapproval of said application; and such application shall thereupon be presented to the Committee on Buildings in the Fire District, which committee by a majority vote may grant such application upon such terms, conditions and regulations as they deem proper.

SECTION 4. No building shall be erected in the City of New Bedford, without the fire limits, and no person shall make or cause to be made any addition to any building covering over twelve hundred and fifty square feet of land, except upon written application and permission so to do as provided in section 3 of this ordinance.

SECTION 5. The chimneys to all buildings hereafter erected within the City of New Bedford, shall be plastered upon their inside surfaces, throughout their entire length, and upon their outside surfaces from the first floor to under side of roof boarding.

SECTION 6. Any person violating the provisions of this ordinance shall be liable to a penalty not exceeding one hundred dollars for each offence.

SECTION 7. Chapters XII. and L. of the ordinances and an ordinance passed by the City Council and approved by the Mayor July 3, 1891, entitled "An Ordinance Relating to Buildings in the Fire Districts," are hereby repealed.

SECTION 8. This ordinance shall take effect upon its passage.

IN COMMON COUNCIL, December 10, 1891.
Passed to be ordained.
JOS. DAWSON, President.

IN BOARD OF ALDERMEN, December 10, 1891.
Passed to be ordained.
CHAS. S. ASHLEY, Mayor.

A true copy.
Attest: DANIEL B. LEONARD.
City Clerk.

[The foregoing was laid before the Mayor on the fourteenth (14th) day of December, 1891, and after ten days it had the "force of a law," as prescribed by law, as it was not returned by him with his objections within that time.]

Attest: DANIEL B. LEONARD,
City Clerk.

In the Year Eighteen Hundred and Ninety-Two.

AN ORDINANCE

To Amend an Ordinance.

Be it ordained by the City Council of the City of New Bedford, as follows:

Section 1. Chapter XIX. of the Ordinances of the City of New Bedford is hereby amended by adding thereto the following sections, to wit:

"Section 12. The office of Sexton of Rural Cemetery, and the office of Sexton of the Oak Grove Cemetery, are hereby established. The duties of each of the incumbents of said offices shall be as provided in this chapter.

"Section 13. In the month of April in each year, the Superintendent of Burial Grounds shall nominate a sexton for each of said cemeteries, subject to confirmation by the Board of Aldermen. Said sextons shall severally hold their office for one year, subject to removal by the Superintendent of Burial Grounds. In case either of said officers shall be removed, as herein provided, said superintendent shall nominate a sexton for the unexpired term of the officer removed, subject to the confirmation of the Board of Aldermen, and the officer so confirmed shall hold his office for the unexpired term for which he is nominated.

The compensation of each sexton shall be fixed by the City Council. Each of said officers shall devote his whole time to the care of the cemetery placed under his charge; shall be under the order and direction of the

Superintendent of Burial Grounds; shall have charge of all work to be performed in said cemeteries, and all moneys accruing from said work shall be deposited with the City Treasurer, to be placed by him to the credit of the cemeteries' account."

SECTION 2. This ordinance shall take effect upon its passage.

IN BOARD OF ALDERMEN, January 28, 1892.
Passed to be ordained.
CHAS. S. ASHLEY, Mayor.

IN COMMON COUNCIL, 2 mo. 25, 1892.
Passed to be ordained.
WM. G. KIRSCHBAUM, President.

Approved Feb. 25, 1892.
CHAS. S. ASHLEY, Mayor.

A true copy.
Attest: DANIEL B. LEONARD,
City Clerk.

In the Year Eighteen Hundred and Ninety-Two.

AN ORDINANCE

FIXING THE TIME OF ELECTION AND THE SALARIES OF THE SUPERINTENDENT OF ALMS HOUSE, SUPERINTENDENT OF POOR FARM, AND PHYSICIAN TO THE BOARD OF OVERSEERS OF THE POOR.

Be it ordained by the City Council of the City of New Bedford, as follows:

SECTION 1. The Superintendent of Alms House shall be elected by the City Council in joint convention annually in the month of April, and shall hold his office for and during the term of one year from the first day of May thereafter next ensuing.

Subject to removal for cause by the Mayor and City Council.

SECTION 2. The Superintendent of Poor Farm shall be elected by the City Council in joint convention annually in the month of April, and shall hold his office for and during the term of one year from the first day of May thereafter next ensuing.

Subject to removal for cause by the Mayor and City Council.

SECTION 3. The Physician to the Board of Overseers of the Poor shall be elected by the City Council in joint convention annually in the month of April, and shall hold his office for and during the term of one year from the first day of May thereafter next ensuing.

The salary of said physician shall be one hundred and

thirty-five dollars per month, and said salary shall include all medicines furnished by said physician to the patients coming under his charge.

Section 4. This ordinance shall take effect upon its passage.

In Common Council, May 26, 1892.
Passed to be ordained.
WILLIAM G. KIRSCHBAUM, President.

In Board of Aldermen, June 9, 1892.
Passed to be ordained.
CHAS. S. ASHLEY, Mayor.

[The foregoing was laid before the Mayor on the tenth (10th) day of June, 1892, and after ten days it had the "force of law" as prescribed by Section 6, Chapter 28 of the Public Statutes, as it was not returned by him with his objections within that time.]

A true copy.
Attest: DANIEL B. LEONARD,
City Clerk.

In the Year Eighteen Hundred and Ninety-Two.

AN ORDINANCE

Establishing the Offices of Superintendent of the Almshouse, Superintendent of Poor Farm, and Physician to the Board of Overseers of the Poor.

Be it ordained by the City Council of the City of New Bedford, as follows:

Section 1. The office of Superintendent of Almshouse is hereby established; and said superintendent shall have control, subject to the approval of the Committee on Charities, Almshouse and Poor, over all matters pertaining to the management of the internal affairs of the New Bedford Almshouse, and who shall receive such compensation as the City Council shall from time to time determine.

Section 2. The office of Superintendent of Poor Farm is hereby established, and the duties of said superintendent shall be the management of the Poor Farm to the best advantage of the City of New Bedford, with power to employ at all times the male inmates of the Almshouse whose services may be required for the conduct of said farm, and such other help as he may require, subject to the direction, approval and control of the Superintendent of the Almshouse. He shall receive a salary to be determined by the City Council from time to time.

Section 3. The office of Physician to the Board of Overseers of the Poor is hereby established, whose salary

shall from time to time be established by the City Council. Said physician shall at all times be subject to the orders and control of the Board of Overseers of the Poor.

In Common Council, May 26, 1892.
Passed to be ordained.
WILLIAM G. KIRSCHBAUM, President.

In Board of Aldermen, June 9, 1892.
Passed to be ordained.
CHAS. S. ASHLEY, Mayor.

[The foregoing was laid before the Mayor on the tenth (10th) day of June, 1892, and after ten days it had the "force of law" as prescribed by Section 6, Chapter 28 of the Public Statutes, as it was not returned by him with his objections within that time.]

A true copy.
Attest: DANIEL B. LEONARD,
City Clerk.